

# Material Safety Data Sheet



According to Regulation (CE) n°1907/2006

|                              |                                                     |                         |
|------------------------------|-----------------------------------------------------|-------------------------|
| <b>Reference:</b> ADI531-100 | ADI531-100 – AIV5 – MSDS - (EN) -V01<br>Version: 01 | Creation date: 04/07/24 |
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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE and COMPANY

### 1.1 Product identifier

**ADIAVET™ AIV H5-H7 REAL TIME - 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 <sup>R</sup> X100<br>(Polyethylene glycol tert-octylphenyl ether) | 9002-93-1 | 618-344-0 | Acute Tox. Oral 4 – H302<br>Eye Irrit. 2 – H319<br>Aquatic Chronic 2 – H411 | < 0.5 %        |

## 4. FIRST AID MEASURES

### 4.1 Description of the first aid measure

|                       |                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>    | Rinse immediately and as long as possible with plenty of water (for at least 10 minutes).<br>Eyelids should be held away from the eyeball to ensure thorough rinsing. Immediately summon eye specialist. |
| <b>Skin contact</b>   | Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Summon doctor.                                                                                      |
| <b>Inhalation</b>     | In case of inhalation place the person in fresh air – Summon doctor                                                                                                                                      |
| <b>Ingestion</b>      | Only when conscious, rinse mouth with water, do not induce vomiting. Summon doctor.                                                                                                                      |
| <b>General advice</b> | 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

|                                          |                                                           |
|------------------------------------------|-----------------------------------------------------------|
| <b>Extinguishing agents</b>              | Water, fire extinguishing powder, carbon dioxide or foam. |
| <b>Non-suitable extinguishing agents</b> | None                                                      |

### 5.2 Special hazards arising from substance of mixture

ADAIGENE SAS  
9 rue Gabriel Calloët-Kerbrat  
22440 Ploufragan  
France

tel. (33) 2 96 68 40 20  
E-mail: [biox@biox.com](mailto:biox@biox.com)  
[HTTP://www.biox.com](http://www.biox.com)

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Hazardous decomposition products formed under fire conditions. - CO<sub>x</sub> ; NO<sub>x</sub> ; 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 <sup>3</sup> | 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

|                                    |                       |
|------------------------------------|-----------------------|
| <b>Physical state</b>              | Liquid                |
| <b>Colour</b>                      | colourless or pinkish |
| <b>Odour</b>                       | Odourless             |
| <b>Boiling point/boiling range</b> | Not determined        |

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|                               |                |
|-------------------------------|----------------|
| <b>Flash point</b>            | N/A            |
| <b>Flammability</b>           | N/A            |
| <b>Explosive properties</b>   | Not determined |
| <b>Vapour pressure</b>        | Not determined |
| <b>Density</b>                | Not determined |
| <b>Relative density air=1</b> | Not determined |
| <b>Solubility in water</b>    | Soluble        |
| <b>pH</b>                     | 8              |
| <b>Viscosity</b>              | Not determined |
| <b>Oxidising properties</b>   | Not determined |
| <b>Conductivity</b>           | 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<sup>R</sup> 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<sup>R</sup> 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<sup>R</sup> 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<sup>R</sup> 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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9 rue Gabriel Calloët-Kerbrat  
22440 Ploufragan  
France

tel. (33) 2 96 68 40 20

E-mail: [biox@biox.com](mailto:biox@biox.com)  
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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                                                                                                                                     |
| UNxxxx | 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                                                                                                                             |