

### SECTION 1: Identification of Product and Company

#### 1.1. Product identifier

Trade name : AMYLASE  
Product code : 11  
Recommended use : For in vitro diagnostic use.

#### 1.2. Company identification

##### Manufacturer:

Labtest Diagnóstica SA  
Av. Paulo Ferreira da Costa, 600  
Lagoa Santa - Brasil - 33240-152  
CNPJ - 16.516.296/0001-38

##### Customer services

DDG: 0800 031 3411 -Fone: 55 (31) 3689-6900

sac@labtest.com.br - www.labtest.com.br

customerservice@labtest.com.br

Emergency number : PRÓ QUÍMICA 0800 110 82 70

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GHS BR (ABNT NBR 14725)

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

#### 2.2. Label elements

##### GHS BR labelling

Hazard pictograms (GHS BR) :



GHS07

Signal word (GHS BR) : Warning

Hazard statements (GHS BR) : H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.

Precautionary statements (GHS BR) : P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

#### 2.3. Other hazards not contributing to the classification

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
hydrogen chloride	(CAS-No.) 7647-01-0	≤ 1.1
formalin	(CAS-No.) 50-00-0	≤ 0.5

### SECTION 4: First aid measures

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According to ABNT NBR 14725-4

Issue date: 1/23/2004  
Revision date: 5/20/2021

### 4.1. Description of first aid measures

First-aid measures general	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation or rash occurs: get medical advice/attention.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show the container or label.

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

Symptoms/effects	: May cause severe burns.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact	: Causes skin irritation. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Notes to physician	: Treat symptomatically
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO <sub>2</sub> , or water spray or regular foam.
Unsuitable extinguishing media	: Do not use a heavy water.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: In case of fire and/or explosion do not breathe fumes.
Explosion hazard	: No direct explosion hazard.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance.
Protection during firefighting	: Wear recommended personal protective equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Avoid contact with skin and eyes. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

Protective equipment	: Wear recommended personal protective equipment. Gloves.
Emergency procedures	: Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

### 6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Absorb spilled material with sand or earth.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Do not eat, drink or smoke when using this product.
Hygiene measures	: Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store in original container. Keep cool.
Storage temperature	: 2 – 8 °C

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Packaging materials

: Store always product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

formalin (50-00-0)		
USA	ACGIH OEL TWA [ppm]	0.1 ppm
USA	ACGIH OEL STEL [ppm]	0.3 ppm

#### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### 8.3. Personal protective equipment

Personal protective equipment : Wear recommended personal protective equipment.

Hand protection : Protective gloves made of PVC.

Eye protection : Wear security glasses which protect from splashes.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: See Section 16.
Odour	: See Section 16.
Odour threshold	: Not available
pH	: $\approx 7$
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Relative evaporation rate (butylacetate=1)	: Not available
Flammability (solid, gas)	: Not available
Explosive limits	: Not available
Vapour pressure	: Not available
Relative vapour density at 20 °C	: Not available
Relative density	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available

#### 9.2. Other information

Not available

### SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions of use
Conditions to avoid	: Extremely high or low temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hazardous decomposition products	: No hazardous decomposition products known at room temperature
Incompatible materials	: Consult supplier(s) of these materials for specific recommendations
Possibility of hazardous reactions	: None under normal use
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not available
Acute toxicity (dermal)	: Not available

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Acute toxicity (inhalation) : Not available

formalin (50-00-0)	
LD50 dermal rabbit	270 mg/kg
LC50 Inhalation - Rat [ppm]	490 ppm

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available

### 11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: May cause severe burns.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact	: Causes skin irritation. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not available
Hazardous to the aquatic environment, long-term (chronic)	: Not available

formalin (50-00-0)	
LC50 - Fish [1]	6.7 mg/l
EC50 - Crustacea [1]	5.8 mg/l
ErC50 algae	4.89 – 6.61 mg/l

### 12.2. Persistence and degradability

formalin (50-00-0)	
Biochemical oxygen demand (BOD)	0.64 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.06 g O <sub>2</sub> /g substance
ThOD	1.068 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.6

### 12.3. Bioaccumulative potential

formalin (50-00-0)	
BCF - Fish [1]	< 1
Partition coefficient n-octanol/water (Log Pow)	0.35

### 12.4. Mobility in soil

formalin (50-00-0)	
Surface tension	73 mN/m
Partition coefficient n-octanol/water (Log Koc)	1.202

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Must follow special treatment according to local regulation.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal.
Additional information	: Do not re-use empty containers.
Ecology - waste materials	: Avoid release to the environment.

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### SECTION 14: Transport information

#### 14.1 National and international Regulations

##### Overland transport

*Resolution No. 5232, of December 14, 2016 - Approves the Supplementary Instructions to the Terrestrial Regulation of the Transport of Dangerous Goods, and other measures.*

UN-No.(RES 5232)	: 3316
Proper Shipping Name (RES 5232)	: Chemical Kit or First Aid Kit
Class (RES 5232)	: 9 - Miscellaneous dangerous substances and articles, including environmentally hazardous substances.
Risk Number (Res 5232)	: 90 - Environmentally hazardous substance; miscellaneous dangerous substances
Packing group (Res 5232)	: II - Substances presenting medium danger
Special provisions(Res 5232)	: 251

##### Transport by sea

*International Maritime Dangerous Goods*

UN-No. (IMDG)	: 3316
Proper Shipping Name (IMDG)	: Chemical Kit
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
EmS-No. (Fire)	: F-A - Alpha Fire Fighting Form - General Fire Fighting Sheet
EmS-No. (Spillage)	: S-P - SPILLAGE SCHEDULE Papa - SUBSTANCES DANGEROUS WHEN WET (COLLECTABLE ARTICLES)
Marine pollutant (IMDG)	: No
Special provisions (IMDG)	: 251,340

##### Air transport

*International Air Transport Association*

UN-No. (IATA)	: 3316
Proper Shipping Name (IATA)	: Chemical kit
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Special provisions (IATA)	: A44,A163

#### 14.2 Other information

Special transport precautions	: Avoid release to the environment, Prevent entry to sewers and public waters.
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### SECTION 15: Regulatory information

Brazil Local Regulations	: Resolution No. 5232, of December 14, 2016 - Approves the Supplementary Instructions to the Terrestrial Regulation of the Transport of Dangerous Goods, and other measures. Standard ABNT NBR 14725.
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### SECTION 16: Other information

Other information	: Kit composed of Substrate (Ref. 11.1) liquid, colorless, odorless and Color Reagent - Stock (Ref. 11.2) liquid, orange brown, odorless which, separately, are mixtures of compounds. The Substrate contains starch, phosphate buffer pH 7.0 and stabilizer. The Color Reagent - Stock contains potassium iodide, potassium iodate and hydrochloric acid.
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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*