

# KIT COBAS LIAT INFLUENZA A/B

Version Revision Date: Date of last issue: 01-13-2015 1.2 04-25-2015 Date of first issue: 11-14-2014

#### **SECTION 1. IDENTIFICATION**

Product name : KIT COBAS LIAT INFLUENZA A/B

Mat.-No./ Genisys-No. : 07341890190

Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics

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Address : 9115 Hague Road

46250 Indianapolis IN

Telephone : 1-800-428-5074

Emergency telephone number:

In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or Can-

ada)

1-703-527-3887 (International)

Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

#### **GHS Label element**

Hazard pictograms







Signal word : Danger

Hazard statements : H302 + H312 + H332 Harmful if swallowed, in contact with skin

or if inhaled

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

Precautionary statements : **Prevention:** 

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear eye protection/ face protection.

P284 Wear respiratory protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON



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CENTER or doctor/ physician.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER or doctor/ physician.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Other hazards

None known.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### COBAS LIAT INFLUENZA A/B

**GHS Classification** 

Acute toxicity (Oral) H302: Harmful if swallowed.

Category 4

Acute toxicity (Inhalation)

Category 4

Acute toxicity (Dermal) H312: Harmful in contact with skin.

Category 4

Serious eye damage H318: Causes serious eye damage.

Category 1

Respiratory sensitisation H334: May cause allergy or asthma symptoms or breathing

H332: Harmful if inhaled.

Category 1 difficulties if inhaled.

Skin sensitisation

Category 1

H317: May cause an allergic skin reaction.

# **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
guanidinium thiocyanate	593-84-0	>= 50 - < 70
Triton X-100	9002-93-1	>= 1 - < 5
Polyethylene glycol	25322-68-3	>= 1 - < 5
Proteinase, Tritirachium album serine	39450-01-6	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Call a physician or poison control centre immediately.

Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty



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of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Rinse mouth with water.

Most important symptoms and effects, both acute and

delayed

: None known.

Notes to physician : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

: Use personal protective equipment.

Ensure adequate ventilation.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for : Soak up with inert absorbent material (e.g. sand, silica gel,



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containment and cleaning up acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

To prevent leaks or spillages from spreading, provide a suita-

ble liquid retention system.

Conditions for safe storage : 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.

Electrical installations / working materials must comply with

the technological safety standards.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### COBAS LIAT INFLUENZA A/B

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Polyethylene glycol	25322-68-3	TWA (aero- sol)	10 mg/m3	US WEEL

# Hazardous components without workplace control parameters

Components	CAS-No.
guanidinium thiocyanate	593-84-0
Triton X-100	9002-93-1
Proteinase, Tritirachium album	39450-01-6
serine	

#### Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.



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Hand protection

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifica-

tions of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### COBAS LIAT INFLUENZA A/B

Appearance : liquid

Colour : No data available
Odour Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Initial boiling point and boiling : No data available

range

Flash point : not determined

Evaporation rate : No data available Flammability (solid, gas) No data available Upper explosion limit : No data available Lower explosion limit : No data available Vapour pressure : No data available Relative vapour density : No data available Relative density : No data available Density : No data available

Solubility(ies)

Water solubility : completely miscible



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Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature

Decomposition temperature

: No data available: No data available

Viscosity
Explosive properties

: No data available: No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: No decomposition if stored and applied as directed.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### COBAS LIAT INFLUENZA A/B

#### **Acute toxicity**

Harmful if swallowed, in contact with skin or if inhaled

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 897.53 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 2.54 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1,776 mg/kg

Method: Calculation method

Components:

guanidinium thiocyanate:

Acute oral toxicity : LD50 Oral (Rat): 593 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Test atmosphere: dust/mist Method: Expert judgement

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg

Method: Expert judgement

Triton X-100:

Acute oral toxicity : LD50 Oral (Rat): 1,900 - 5,000 mg/kg

Acute toxicity estimate: 500 mg/kg

Method: Expert judgement

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3,000 mg/kg



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Polyethylene glycol:

Acute oral toxicity : LD50 Oral (Rat): > 50,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 30 mg/l

Method: Expert judgement

Acute dermal toxicity : LD50 Dermal (Rabbit): > 20,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### **Product:**

Remarks: May cause skin irritation and/or dermatitis.

### **Components:**

### Polyethylene glycol:

Remarks: This information is not available.

### Proteinase, Tritirachium album serine:

Result: Irritating to skin.

Remarks: May cause skin irritation and/or dermatitis.

### Serious eye damage/eye irritation

Causes serious eye damage.

### **Product:**

Remarks: May cause irreversible eye damage.

### **Components:**

#### Triton X-100:

Result: Risk of serious damage to eyes. Remarks: May cause irreversible eye damage.

### Polyethylene glycol:

Remarks: This information is not available.

# Proteinase, Tritirachium album serine:

Result: Irritating to eyes.

Remarks: May cause irreversible eye damage.

### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if in-

haled.

#### Product:

Remarks: Causes sensitisation.

#### **Components:**

### Proteinase, Tritirachium album serine:

Assessment: May cause sensitisation by skin contact.

Remarks: Causes sensitisation.



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Assessment: May cause sensitisation by inhalation.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

#### Components:

# guanidinium thiocyanate:

Remarks: 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.

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.

**OSHA**No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

#### Components:

# Polyethylene glycol:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### Proteinase, Tritirachium album serine:

Assessment: May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

### **Components:**

#### Polyethylene glycol:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Proteinase, Tritirachium album serine:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**



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### Polyethylene glycol:

No data available

Proteinase, Tritirachium album serine:

No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

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**Ecotoxicity** 

**Components:** 

guanidinium thiocyanate:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 89.1 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 42.4 mg/l

Exposure time: 48 h

**Ecotoxicology Assessment** 

Chronic aquatic toxicity

: Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

Triton X-100:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4 - 8.9 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 18 - 26 mg/l

Exposure time: 48 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity

: This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

Polyethylene glycol:

Toxicity to fish : LC50: > 100 mg/l

Exposure time: 96 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity

: This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.



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Other organisms relevant to

the environment

: No data available

Proteinase, Tritirachium album serine:

**Ecotoxicology Assessment** 

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to

the environment

: No data available

Persistence and degradability

**Components:** 

Triton X-100:

Biodegradation: > 60 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

Bioaccumulative potential

**Components:** 

guanidinium thiocyanate:

Partition coefficient: n-

octanol/water

: log Pow: -1.38

Triton X-100:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <=

4).

Mobility in soil

No data available

Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

**Components:** 

Polyethylene glycol:

Adsorbed organic bound

halogens (AOX)

: Remarks: Not applicable



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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulation

**IATA-DGR** 

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**National Regulations** 

**49 CFR** 

Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

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TSCA list : Not relevant

# **EPCRA - Emergency Planning and Community Right-to-Know Act**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.



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**SARA 313** 

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycine 56-40-6 4.9999 % Polyethylene glycol 25322-68-3 3.9999 %

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know

guanidinium thiocyanate	593-84-0	50 - 70 %
trehalose	99-20-7	5 - 10 %
non hazardous compounds (liquid)	Not Assigned	5 - 10 %
glycine	56-40-6	1 - 5 %
trometamol	77-86-1	1 - 5 %
potassium chloride	7447-40-7	1 - 5 %
Triton X-100	9002-93-1	1 - 5 %
Polyethylene glycol	25322-68-3	1 - 5 %

#### **New Jersey Right To Know**

guanidinium thiocyanate	593-84-0	50 - 70 %
trehalose	99-20-7	5 - 10 %
non hazardous compounds (liquid)	Not Assigned	5 - 10 %
glycine	56-40-6	1 - 5 %
trometamol	77-86-1	1 - 5 %
potassium chloride	7447-40-7	1 - 5 %
Triton X-100	9002-93-1	1 - 5 %

#### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### The components of this product are reported in the following inventories:

REACH : Not in compliance with the inventory



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: guanidinium thiocyanate

: trehalose

: non hazardous compounds (liquid)

: glycine

: trometamol

: potassium chloride

: Triton X-100

: Polyethylene glycol

: Proteinase, Tritirachium album serine

CH INV : Not in compliance with the inventory

: non hazardous compounds (liquid)

: Triton X-100

TSCA : Not On TSCA Inventory

: non hazardous compounds (liquid)

: Proteinase, Tritirachium album serine

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

: non hazardous compounds (liquid)

: Proteinase, Tritirachium album serine

AICS : Not in compliance with the inventory

: non hazardous compounds (liquid)

: Proteinase, Tritirachium album serine

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

: guanidinium thiocyanate

: trehalose

: non hazardous compounds (liquid)

Proteinase, Tritirachium album serine

ISHL : Not in compliance with the inventory



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: guanidinium thiocyanate

: non hazardous compounds (liquid)

KECI : Not in compliance with the inventory

: guanidinium thiocyanate

: non hazardous compounds (liquid)

: Proteinase, Tritirachium album serine

PICCS : Not in compliance with the inventory

: trehalose

: non hazardous compounds (liquid)

: Proteinase, Tritirachium album serine

IECSC : Not in compliance with the inventory

: non hazardous compounds (liquid)

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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### **GHS Label element**

Hazard pictograms







Signal word : Danger

Hazard statements : H302 + H312 + H332 Harmful if swallowed, in contact with skin

or if inhaled

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Precautionary statements : **Prevention:** 

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear eye protection/ face protection. P280 Wear protective gloves/ protective clothing.

P285 In case of inadequate ventilation wear respiratory protec-



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tion.

#### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

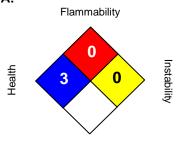
### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

### COBAS LIAT INFLUENZA A/B NFPA:



Special hazard.

#### HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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