

Version 1.1 Revision Date 11-18-2013 Print Date 03-28-2014

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : INHIBITOR D

Mat.-No./ Genisys-No. : 05268591001

## Manufacturer or supplier's details

Company : Roche Diagnostics Limited

Charles Avenue

Address : Burgess Hill

RH15 9RY West Sussex

Telephone : +44 1444 256000 Telefax : +44 1444 256239

Emergency telephone : +49(0)621-759-2012 oder +49(0)621-759-4848 oder

number +49(0)8856-60-2629

Emergency telephone number:

In case of emergencies: : Health, Safety & +44 1444 256500 or +44 7802

(Roche Diagnostics Ltd.) Environment 260498

- +44 1444 256561 or +44 7710

Product Safety / Vigilance 391653

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Toxicology 24Hr help-line: : NPIS: +44 844 892 0111 
Health Advice 24Hr help-line: NHS Direct: +44 845 4647

NHS 24: +44 8454 242424

#### Recommended use of the chemical and restrictions on use

Restrictions on use : For professional users only.

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

### **Emergency Overview**

Physical state	liquid
Colour	colourless
Odour	none

# **GHS Classification**

Skin irritation : Category 2 Serious eye damage : Category 1

**GHS Label element** 

Hazard pictograms

E D

Signal word : Danger



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Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements : **Prevention:** 

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.

P310 Immediately call a POISON CENTER or doctor/

physician.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

#### **Potential Health Effects**

Carcinogenicity:

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.

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

Hydrogen Peroxide

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

equal to 0.1% is identified as a carcinogen or potential

carcinogen 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.

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

Substance / Mixture : Preparation

## **Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
hydrogen peroxide	7722-84-1	>= 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 : Move to fresh air.

Consult a physician after significant exposure.

If unconscious place in recovery position and seek medical



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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

tissue damage and blindness.

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

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.

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

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: 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 fire fighting if

necessary.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency 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.



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Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

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

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

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

regulations.

To prevent leaks or spillages from spreading, provide a

suitable liquid retention system.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid :

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

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m3	NIOSH REL
		TWA	1 ppm 1.4 mg/m3	OSHA Z-1
		TWA	1 ppm 1.4 mg/m3	OSHA P0

#### Personal protective equipment

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

approved filter.

Hand protection

Material : Protective gloves



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Remarks : The selected protective gloves have to satisfy the

specifications 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**

Appearance : liquid

Colour : colourless

Odour : none pH : neutral

Melting point/range : no data available
Boiling point/boiling range : no data available

Flash point

does not flash

Upper explosion limit : no data available
Lower explosion limit : no data available

Solubility(ies)

Water solubility : completely miscible

Auto-ignition temperature : no data available

Thermal decomposition : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

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

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



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Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Reacts with the following substances:

Acids

Metals

No decomposition if stored and applied as directed.

Conditions to avoid : no data available

Incompatible materials : no data available

Hazardous decomposition

products

: no data available

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

## **Acute toxicity**

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 28.52 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

**Components:** 

hydrogen peroxide:

Acute oral toxicity : LD50 Oral mouse: 2,000 mg/kg

LD50 Oral rabbit: 820 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : 11 mg/l

Test atmosphere: vapour Method: Expert judgement

Acute dermal toxicity : LD50 Dermal rat: 4,060 mg/kg

### Skin corrosion/irritation

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

### **Components:**

hydrogen peroxide:



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Remarks: Extremely corrosive and destructive to tissue.

## Serious eye damage/eye irritation

### **Product:**

Remarks: May cause irreversible eye damage.

### **Components:**

hydrogen peroxide:

Remarks: May cause irreversible eye damage.

### Respiratory or skin sensitisation

no data available

### Germ cell mutagenicity

no data available

## Carcinogenicity

no data available

## Reproductive toxicity

no data available

## STOT - single exposure

no data available

## STOT - repeated exposure

no data available

## **Aspiration toxicity**

no data available

## **Further information**

### Components:

hydrogen peroxide:

Remarks: no data available

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

### **Product:**

**Ecotoxicology Assessment** 

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

Other organisms relevant to

the environment

: no data available

## **Components:**

hydrogen peroxide:



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Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 30 mg/l

Exposure time: 48 h

LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l

Exposure time: 96 h

LC50 (Carassius auratus (goldfish)): 30 mg/l

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 7.7 mg/l

Exposure time: 24 h

Toxicity to algae : LC50 (Scenedesmus quadricauda (Green algae)): 7.3 mg/l

Toxicity to bacteria : Remarks: no data available

**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

#### Persistence and degradability

#### Components:

hydrogen peroxide:

Biodegradability : Remarks: no data available

Biochemical Oxygen

Demand (BOD)

: Remarks: no data available

Chemical Oxygen Demand

(COD)

: Remarks: no data available

Dissolved organic carbon

(DOC)

: Remarks: no data available

Physico-chemical removability

: Remarks: no data available

Bioaccumulative potential

**Components:** 

hydrogen peroxide:

Bioaccumulation : Remarks: no data available

Partition coefficient: n-

octanol/water

: Remarks: no data available

Mobility in soil

**Components:** 

hydrogen peroxide:

Mobility : Remarks: no data available Distribution among : Remarks: no data available

environmental compartments

Other adverse effects

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of



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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).

**Components:** 

hydrogen peroxide:

Environmental fate and

pathways

Results of PBT and vPvB

assessment

: no data available

: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not

considered to be very persistent nor very bioaccumulating

Adsorbed organic bound

halogens (AOX)

Additional ecological

information

: Remarks: no data available

: no data available

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

#### Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling 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

### Special precautions for user

# Material Safety Data Sheet



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Remarks : Not dangerous goods in the meaning of ADR/RID, ADNR,

IMDG-Code, ICAO/IATA-DGR

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

**OSHA Hazards** : Harmful by ingestion.

WHMIS Classification : E: Corrosive Material

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

hydrogen peroxide 7722-84-1 1000

SARA 302 : The following components are subject to reporting levels

established by SARA Title III, Section 302:

hydrogen peroxide 7722-84-1 3 %

SARA 313 : 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 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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **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

### **US State Regulations**

## Massachusetts Right To Know

hydrogen peroxide 7722-84-1 1 - 5 %

## Pennsylvania Right To Know

non hazardous compounds Not Assigned 90 - 100 % hydrogen peroxide 7722-84-1 1 - 5 %

# **New Jersey Right To Know**

non hazardous compounds Not Assigned 90 - 100 % hydrogen peroxide 7722-84-1 1 - 5 %



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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.

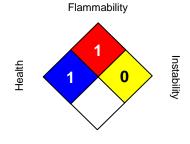
#### **Inventories**

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

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

#### **Further information**

#### NFPA:



Special hazard.

### HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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.