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

Product name : ISH PROTEASE 2

Mat.-No./ Genisys-No. : 05273323001

## 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**

Not a hazardous substance or mixture.

#### **GHS Label element**

Not a hazardous substance or mixture.

#### **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



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human carcinogen by IARC.

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

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

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.

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 [%]
propane-1,2-diol	57-55-6	>= 50 - < 70

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

General advice : Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

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.

Specific hazards during

firefighting

: No information available.



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Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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 Environmental precautions : Refer to protective measures listed in sections 7 and 8.

: Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

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

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

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

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
		TWA	10 mg/m3	US WEEL

## Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

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



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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 : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

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

Appearance : liquid

Colour : colourless
Odour : none
pH : neutral

Flash point

does not flash

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

Solubility(ies)

Water solubility : completely miscible

Thermal decomposition : Hazardous decomposition products formed under fire

conditions.

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

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

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

Reacts with the following substances:

Oxidizing agents Reducing agents

Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : no data available

Incompatible materials : no data available

Hazardous decomposition

products

Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).



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Gaseous hydrogen chloride (HCI).

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

## **Acute toxicity**

## **Product:**

Acute inhalation toxicity : Acute toxicity estimate : > 40 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:

propane-1,2-diol:

Acute oral toxicity : LD50 rat: 20,000 mg/kg

LD50 mouse: 20,300 mg/kg

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

Method: Expert judgement

Acute dermal toxicity : LD50 rabbit: 20,800 mg/kg

#### Skin corrosion/irritation

## **Components:**

propane-1,2-diol:

Remarks: This information is not available.

#### Serious eye damage/eye irritation

## **Components:**

propane-1,2-diol:

Remarks: This information is not available.

## Respiratory or skin sensitisation

no data available

## Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

## Reproductive toxicity

no data available



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#### STOT - single exposure

#### **Product:**

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

#### Components:

#### propane-1,2-diol:

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

## STOT - repeated exposure

#### **Product:**

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

#### **Components:**

#### propane-1,2-diol:

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

## **Aspiration toxicity**

## **Components:**

#### propane-1,2-diol:

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

# <u>Components:</u> propane-1,2-diol:

Toxicity to fish : LC0 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l

Exposure time: 24 h

NOEC (Pimephales promelas (fathead minnow)): 52,930 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 34,400 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella pyrenoidosa): 92,000 mg/l



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Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 26,800 mg/l

Exposure time: 0.5 h

Toxicity to fish (Chronic

toxicity)

: > 1 mg/l

**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: propane-1,2-diol:

Biodegradability : Zahn-Wellens Test

Result: Readily biodegradable.

Biodegradation: 98 % Exposure time: 5 d

Method: OECD Test Guideline 302

**Bioaccumulative potential** 

<u>Components:</u> propane-1,2-diol:

Partition coefficient: n-

: log Pow: -0.92

octanol/water

**Mobility in soil** no data available

Other adverse effects

no data available

Product:

Remarks

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances 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).

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

Waste from residues : Can be disposed as waste water, when in compliance with

local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Do not re-use empty containers.



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#### **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

Remarks : no data available

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

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

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

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrochloric acid (theor. 100%)	7647-01-0	5000	, ,
sodium azide	26628-22-8	1000	

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

reporting requirements of SARA Title III, Section 302.

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

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

hydrogen chloride 7647-01-0 0.7659 %



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The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

> 7647-01-0 hydrogen chloride 0.7659 %

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):

propane-1,2-diol 57-55-6 50 %

**Clean Water Act** 

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

> 0.7659 % hydrogen chloride 7647-01-0

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table

117.3:

hydrogen chloride 7647-01-0 0.7659 %

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

7647-01-0 0.1 - 1 % hydrogen chloride sodium azide 26628-22-8 0 - 0.1 %

Pennsylvania Right To Know

propane-1,2-diol 57-55-6 50 - 70 % hydrogen chloride 7647-01-0 0.1 - 1 % sodium azide 26628-22-8 0 - 0.1 %

**New Jersey Right To Know** 

propane-1,2-diol 57-55-6 50 - 70 % water 7732-18-5 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.

**Inventories** 

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

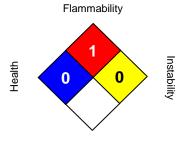
**SECTION 16. OTHER INFORMATION** 



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#### **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.