

# SAFETY DATA SHEET



ISH Pepsin Kit, Part Number G9411A

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : ISH Pepsin Kit, Part Number G9411A  
**Part no. (chemical kit)** : G9411A  
**Part no.** : Pepsin 5190-7748  
Pepsin Diluent (10X) 5190-7749

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Material uses** : Analytical reagent.  
Pepsin 48 ml (2 mg/ml)  
Pepsin Diluent (10X) 48 ml

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Pepsin Mixture  
Pepsin Diluent (10X) Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

##### **Pepsin**

H226 FLAMMABLE LIQUIDS - Category 3  
H317 SKIN SENSITISATION - Category 1

##### **Pepsin Diluent (10X)**

H225 FLAMMABLE LIQUIDS - Category 2  
H315 SKIN CORROSION/IRRITATION - Category 2  
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
H317 SKIN SENSITISATION - Category 1  
H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

**Ingredients of unknown toxicity** : Pepsin Diluent (10X) Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%  
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%  
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%

ISH Pepsin Kit, Part Number G9411A





## SECTION 2: Hazards identification

**Ingredients of unknown ecotoxicity** : Pepsin Diluent (10X) Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 7.9%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

<b>Hazard pictograms</b>	: Pepsin	 
	Pepsin Diluent (10X)	 
<b>Signal word</b>	: Pepsin Pepsin Diluent (10X)	Warning Danger
<b>Hazard statements</b>	: Pepsin  Pepsin Diluent (10X)	H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction. H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness. H412 - Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>		
<b>Prevention</b>	: Pepsin  Pepsin Diluent (10X)	P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
<b>Response</b>	: Pepsin  Pepsin Diluent (10X)	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
<b>Storage</b>	: Pepsin Pepsin Diluent (10X)	Not applicable. P405 - Store locked up.
<b>Disposal</b>	: Pepsin  Pepsin Diluent (10X)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: Pepsin  Pepsin Diluent (10X)	- reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) - propan-2-ol - reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
<b>Supplemental label elements</b>	: Pepsin Pepsin Diluent (10X)	Not applicable. Not applicable.

ISH Pepsin Kit, Part Number G9411A

## SECTION 2: Hazards identification

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Pepsin Not applicable.  
Pepsin Diluent (10X) Not applicable.

### Special packaging requirements

**Tactile warning of danger** : Pepsin Not applicable.  
Pepsin Diluent (10X) Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : Pepsin None known.  
Pepsin Diluent (10X) None known.

## SECTION 3: Composition/information on ingredients

**3.1 Substances** : Pepsin Mixture  
Pepsin Diluent (10X) Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>Pepsin</b> Propan-2-ol	EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
pepsin A	EC: 232-629-3 CAS: 9001-75-6 Index: 647-008-00-6	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335	[1]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9 Index: 613-167-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
<b>Pepsin Diluent (10X)</b> Propan-2-ol	EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥50 - ≤75	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	EC: 214-684-5 CAS: 1185-53-1	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9 Index: 613-167-00-5	≤1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

ISH Pepsin Kit, Part Number G9411A

### SECTION 3: Composition/information on ingredients

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Eye contact</b>	: Pepsin	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	Pepsin Diluent (10X)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Inhalation</b>	: Pepsin	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Pepsin Diluent (10X)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	: Pepsin	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Pepsin Diluent (10X)	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

ISH Pepsin Kit, Part Number G9411A

## SECTION 4: First aid measures

<b>Ingestion</b>	: Pepsin	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Pepsin Diluent (10X)	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Protection of first-aiders</b>	: Pepsin	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Pepsin Diluent (10X)	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Potential acute health effects

<b>Eye contact</b>	: Pepsin Pepsin Diluent (10X)	No known significant effects or critical hazards. Causes serious eye irritation.
<b>Inhalation</b>	: Pepsin Pepsin Diluent (10X)	No known significant effects or critical hazards. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	: Pepsin Pepsin Diluent (10X)	May cause an allergic skin reaction. Causes skin irritation. May cause an allergic skin reaction.
<b>Ingestion</b>	: Pepsin Pepsin Diluent (10X)	No known significant effects or critical hazards. Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Pepsin Pepsin Diluent (10X)	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
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ISH Pepsin Kit, Part Number G9411A

## SECTION 4: First aid measures

<b>Inhalation</b>	: Pepsin Pepsin Diluent (10X)	No specific data. Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: Pepsin  Pepsin Diluent (10X)	Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	: Pepsin Pepsin Diluent (10X)	No specific data. No specific data.

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

<b>Notes to physician</b>	: Pepsin  Pepsin Diluent (10X)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Specific treatments</b>	: Pepsin Pepsin Diluent (10X)	No specific treatment. No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Pepsin Pepsin Diluent (10X)	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: Pepsin Pepsin Diluent (10X)	Do not use water jet. Do not use water jet.

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

<b>Hazards from the substance or mixture</b>	: Pepsin  Pepsin Diluent (10X)	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous combustion products</b>	: Pepsin  Pepsin Diluent (10X)	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds

### 5.3 Advice for firefighters

Date of issue/Date of revision : 07/03/2018

6/20



ISH Pepsin Kit, Part Number G9411A

## SECTION 5: Firefighting measures

<b>Special precautions for fire-fighters</b>	: Pepsin	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	Pepsin Diluent (10X)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Special protective equipment for fire-fighters</b>	: Pepsin	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Pepsin Diluent (10X)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: Pepsin	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Pepsin Diluent (10X)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: Pepsin	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Pepsin Diluent (10X)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>6.2 Environmental precautions</b>	: Pepsin	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Pepsin Diluent (10X)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

ISH Pepsin Kit, Part Number G9411A

## SECTION 6: Accidental release measures

May be harmful to the environment if released in large quantities.

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

**Methods for cleaning up** : Pepsin

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor.

Pepsin Diluent (10X)

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Pepsin

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

Pepsin Diluent (10X)

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.



ISH Pepsin Kit, Part Number G9411A

## SECTION 7: Handling and storage

### Advice on general occupational hygiene

: Pepsin

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Pepsin Diluent (10X)

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

#### Storage

: Pepsin

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from alkalis. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Pepsin Diluent (10X)

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from alkalis. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Pepsin P5c	5000	50000
Pepsin Diluent (10X) P5c	5000	50000

### 7.3 Specific end use(s)

#### Recommendations

: Pepsin  
Pepsin Diluent (10X)

Industrial applications, Professional applications.  
Industrial applications, Professional applications.

#### Industrial sector specific solutions

: Pepsin  
Pepsin Diluent (10X)

Not applicable.  
Not applicable.

ISH Pepsin Kit, Part Number G9411A

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>Pepsin</b> Propan-2-ol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> STEL: 1250 mg/m <sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m <sup>3</sup> 8 hours. TWA: 400 ppm 8 hours.
<b>Pepsin Diluent (10X)</b> Propan-2-ol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> STEL: 1250 mg/m <sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m <sup>3</sup> 8 hours. TWA: 400 ppm 8 hours.

#### Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

#### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Individual protection measures

##### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

##### Skin protection

ISH Pepsin Kit, Part Number G9411A

## SECTION 8: Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Pepsin Pepsin Diluent (10X)	Liquid. Liquid.
<b>Colour</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Odour</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Odour threshold</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>pH</b>	: Pepsin Pepsin Diluent (10X)	2 2
<b>Melting point/freezing point</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Initial boiling point and boiling range</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Flash point</b>	: Pepsin Pepsin Diluent (10X)	Closed cup: 37.8 to 61°C Closed cup: -18 to 23°C
<b>Evaporation rate</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Flammability (solid, gas)</b>	: Pepsin Pepsin Diluent (10X)	Not applicable. Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Vapour pressure</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Vapour density</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.

ISH Pepsin Kit, Part Number G9411A

## SECTION 9: Physical and chemical properties

<b>Relative density</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Solubility(ies)</b>	: Pepsin Pepsin Diluent (10X)	Soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Auto-ignition temperature</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Decomposition temperature</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Viscosity</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Explosive properties</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.
<b>Oxidising properties</b>	: Pepsin Pepsin Diluent (10X)	Not available. Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Pepsin Pepsin Diluent (10X)	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Pepsin Pepsin Diluent (10X)	The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Pepsin Pepsin Diluent (10X)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Pepsin Pepsin Diluent (10X)	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
<b>10.5 Incompatible materials</b>	: Pepsin Pepsin Diluent (10X)	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis oxidizing materials Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis oxidizing materials

ISH Pepsin Kit, Part Number G9411A

## SECTION 10: Stability and reactivity

<b>10.6 Hazardous decomposition products</b>	<b>:</b> Pepsin	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Pepsin Diluent (10X)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>Pepsin</b> Propan-2-ol  reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LC50 Inhalation Vapour	Rat	66100 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Oral	Rat	53 mg/kg	-
<b>Pepsin Diluent (10X)</b> Propan-2-ol  reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LC50 Inhalation Vapour	Rat	66100 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Oral	Rat	53 mg/kg	-

#### Acute toxicity estimates

Route	ATE value
<b>Pepsin Diluent (10X)</b> Oral Dermal Inhalation (vapours)	10600 mg/kg 60000 mg/kg 600 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Pepsin</b> Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
<b>Pepsin Diluent (10X)</b> Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

#### Sensitiser

**Conclusion/Summary** : Not available.

**Respiratory** : **Pepsin**: May cause sensitisation by inhalation.

#### Mutagenicity

**Date of issue/Date of revision** : 07/03/2018

13/20

ISH Pepsin Kit, Part Number G9411A

## SECTION 11: Toxicological information

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>Pepsin</b> Propan-2-ol pepsin A	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
<b>Pepsin Diluent (10X)</b> Propan-2-ol 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Pepsin  
Pepsin Diluent (10X)

Routes of entry anticipated: Oral, Dermal, Inhalation.  
Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Inhalation** : Pepsin  
Pepsin Diluent (10X)

No known significant effects or critical hazards.  
Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

**Ingestion** : Pepsin  
Pepsin Diluent (10X)

No known significant effects or critical hazards.  
Can cause central nervous system (CNS) depression.

**Skin contact** : Pepsin  
Pepsin Diluent (10X)

May cause an allergic skin reaction.  
Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** : Pepsin  
Pepsin Diluent (10X)

No known significant effects or critical hazards.  
Causes serious eye irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Pepsin  
Pepsin Diluent (10X)

No specific data.  
Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

**Ingestion** : Pepsin  
Pepsin Diluent (10X)

No specific data.  
No specific data.

**Skin contact** : Pepsin  
  
Pepsin Diluent (10X)

Adverse symptoms may include the following:  
irritation  
redness  
Adverse symptoms may include the following:  
irritation  
redness



ISH Pepsin Kit, Part Number G9411A

## SECTION 11: Toxicological information

**Eye contact** : Pepsin No specific data.  
Pepsin Diluent (10X) Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: Pepsin Pepsin Diluent (10X)	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
<b>Carcinogenicity</b>	: Pepsin Pepsin Diluent (10X)	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Pepsin Pepsin Diluent (10X)	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Pepsin Pepsin Diluent (10X)	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: Pepsin Pepsin Diluent (10X)	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Pepsin Pepsin Diluent (10X)	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Other information</b>	: Pepsin Pepsin Diluent (10X)	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking. May cause sensitisation by inhalation. Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Pepsin Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Pepsin Diluent (10X) Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours

### 12.2 Persistence and degradability

ISH Pepsin Kit, Part Number G9411A

## SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
<b>Pepsin</b> Propan-2-ol	301E Ready Biodegradability - Modified OECD Screening Test	95 % - 21 days	-	-
<b>Pepsin Diluent (10X)</b> Propan-2-ol	301E Ready Biodegradability - Modified OECD Screening Test	95 % - 21 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Pepsin</b> Propan-2-ol	-	-	Readily
<b>Pepsin Diluent (10X)</b> Propan-2-ol	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Pepsin</b> Propan-2-ol	0.05	-	low
<b>Pepsin Diluent (10X)</b> Propan-2-ol	0.05	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging




**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

ISH Pepsin Kit, Part Number G9411A

## SECTION 13: Disposal considerations

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9 	9 	9 
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.

### Additional information

**ADR/RID** : **Hazard identification number** 90  
**Limited quantity** See SP 251  
**Special provisions** 251, 340  
**Tunnel code** (E)

**IMDG** : **Emergency schedules** F-A, \_S-P\_  
**Special provisions** 251, 340

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.  
**Special provisions** A44, A163

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

ISH Pepsin Kit, Part Number G9411A

## SECTION 15: Regulatory information

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Pepsin Not applicable.  
Pepsin Diluent (10X) Not applicable.

### Other EU regulations

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

##### Category

**Pepsin**

P5c

**Pepsin Diluent (10X)**

P5c

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.  
**Canada** : All components are listed or exempted.  
**China** : All components are listed or exempted.  
**Europe** : Not determined.  
**Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Malaysia** : Not determined.  
**New Zealand** : All components are listed or exempted.  
**Philippines** : All components are listed or exempted.  
**Republic of Korea** : All components are listed or exempted.  
**Taiwan** :  All components are listed or exempted.  
**Thailand** :  Not determined.  
**Turkey** : Not determined.  
**United States** : Not determined.

ISH Pepsin Kit, Part Number G9411A

## SECTION 15: Regulatory information

**Viet Nam** : Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
<b>Pepsin</b> Flam. Liq. 3, H226 Skin Sens. 1, H317	On basis of test data Calculation method
<b>Pepsin Diluent (10X)</b> Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412	On basis of test data Expert judgment Expert judgment Calculation method Calculation method Calculation method

### Full text of abbreviated H statements

<b>Pepsin</b> H225 H226 H301 H311 H314 H315 H317 H319 H331 H334  H335 H336 H400 H410  <b>Pepsin Diluent (10X)</b> H225 H301 H311 H314 H315 H317 H319 H331 H335 H336 H400 H410	Highly flammable liquid and vapour. Flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.  Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
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**Date of issue/Date of revision** : 07/03/2018

19/20

ISH Pepsin Kit, Part Number G9411A

**SECTION 16: Other information**

H412

Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

<p><b>Pepsin</b>                  Acute Tox. 3, H301                  Acute Tox. 3, H311                  Acute Tox. 3, H331                  Aquatic Acute 1, H400                  Aquatic Chronic 1, H410                  Eye Irrit. 2, H319                  Flam. Liq. 2, H225                  Flam. Liq. 3, H226                  Resp. Sens. 1, H334                  Skin Corr. 1B, H314                  Skin Irrit. 2, H315                  Skin Sens. 1, H317                  STOT SE 3, H335                    STOT SE 3, H336</p> <p><b>Pepsin Diluent (10X)</b>                  Acute Tox. 3, H301                  Acute Tox. 3, H311                  Acute Tox. 3, H331                  Aquatic Acute 1, H400                  Aquatic Chronic 1, H410                  Aquatic Chronic 3, H412                  Eye Irrit. 2, H319                  Flam. Liq. 2, H225                  Skin Corr. 1B, H314                  Skin Irrit. 2, H315                  Skin Sens. 1, H317                  STOT SE 3, H335                    STOT SE 3, H336</p>	<p>ACUTE TOXICITY (oral) - Category 3                  ACUTE TOXICITY (dermal) - Category 3                  ACUTE TOXICITY (inhalation) - Category 3                  SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1                  SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  FLAMMABLE LIQUIDS - Category 2                  FLAMMABLE LIQUIDS - Category 3                  RESPIRATORY SENSITISATION - Category 1                  SKIN CORROSION/IRRITATION - Category 1B                  SKIN CORROSION/IRRITATION - Category 2                  SKIN SENSITISATION - Category 1                  SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3                  SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3</p> <p>ACUTE TOXICITY (oral) - Category 3                  ACUTE TOXICITY (dermal) - Category 3                  ACUTE TOXICITY (inhalation) - Category 3                  SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1                  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                  SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  FLAMMABLE LIQUIDS - Category 2                  SKIN CORROSION/IRRITATION - Category 1B                  SKIN CORROSION/IRRITATION - Category 2                  SKIN SENSITISATION - Category 1                  SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3                  SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3</p>
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