SAFETY DATA SHEET



Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100

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

1.1 Product identifier

Product name : Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100

Part no. (chemical kit) : 103015-100

Part no. : Oligomycin Not available.

FCCP Not available.
Antimycin A/ Rotenone Not available.

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

Material uses: For research use only. Not for use in diagnostic procedures (RUO).

Oligomycin 6 x 5.722 mg
FCCP 6 x 22.593 mg
Antimycin A/ Rotenone 6 x 5.725 mg

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

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 : Oligomycin Mixture FCCP Mixture

Antimycin A/ Rotenone Mixture

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

Antimycin A/ Rotenone

H400 SHORT-TERM (ACUTE) AQUATIC HAZARD Category 1
H410 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 1

Ingredients of unknown

toxicity

: Øligomycin Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

FCCP Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

Antimycin A/ Rotenone Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

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

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SECTION 2: Hazards identification

Hazard pictograms : Antimycin A/ Rotenone



Signal word : Oligomycin No signal word. **FCCP** No signal word.

Antimycin A/ Rotenone Warning

Hazard statements Oligomycin No known significant effects or critical hazards. **FCCP** No known significant effects or critical hazards.

> Antimycin A/ Rotenone H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention Not applicable. Oligomycin

FCCP Not applicable.

Antimycin A/ Rotenone P273 - Avoid release to the environment.

Response Oligomycin Not applicable. **FCCP**

Not applicable.

P391 - Collect spillage. Antimycin A/ Rotenone

: Oligomycin Not applicable. **Storage FCCP** Not applicable. Antimycin A/ Rotenone Not applicable.

Disposal : Oligomycin Not applicable.

FCCP Not applicable.

Antimycin A/ Rotenone P501 - Dispose of contents and container in accordance

with all local, regional, national and international regulations.

Hazardous ingredients : Oligomycin Not applicable. **FCCP** Not applicable.

Antimycin A/ Rotenone Not applicable.

: Øligomycin Safety data sheet available on request. Supplemental label

> **FCCP** Contains isocyanates. May produce an allergic reaction.

Safety data sheet available on request.

Antimycin A/ Rotenone Not applicable.

Not applicable. **Annex XVII - Restrictions** Oligomycin on the manufacture, **FCCP** Not applicable. Antimycin A/ Rotenone Not applicable. placing on the market and use of certain dangerous substances,

Special packaging requirements

Tactile warning of : Oligomycin Not applicable. **FCCP** Not applicable. danger

Antimycin A/ Rotenone Not applicable.

2.3 Other hazards

mixtures and articles

elements

Product meets the : Øligomycin This mixture does not contain any substances that are assessed to be a PBT or a vPvB. criteria for PBT or vPvB

FCCP This mixture does not contain any substances that are according to

assessed to be a PBT or a vPvB. Regulation (EC) No.

Antimycin A/ Rotenone This mixture does not contain any substances that are 1907/2006, Annex XIII

assessed to be a PBT or a vPvB.

Other hazards which do : Oligomycin None known. not result in

FCCP None known. classification Antimycin A/ Rotenone None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances : Oligomycin Mixture FCCP Mixture Antimycin A/ Rotenone Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
⊘ligomycin Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
FCCP				
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
Antimycin A/ Rotenone				
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
Antimycin A	CAS: 1397-94-0	≤0.3	Acute Tox. 2, H300 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)	[1]
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo [2,3-h]chromen-6-one	EC: 201-501-9 CAS: 83-79-4 Index: 650-005-00-2	≤0.3	Acute Tox. 3, H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) See Section 16 for the full text of the H statements declared	[1] [2]
			statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>I ype</u>

- [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

Eye contact : Oligomycin

FCCP

Antimycin A/ Rotenone

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. 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.

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SECTION 4: First aid measures

Inhalation : Oligomycin Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

FCCP Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

Antimycin A/ Rotenone 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.

Skin contact : Oligomycin Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

FCCP Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Antimycin A/ Rotenone Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Ingestion : ∅igomycin Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

FCCP Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

Antimycin A/ Rotenone Wash out mouth with water. Remove dentures if any. 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.

without suitable training.

FCCP No action shall be taken involving any personal risk or

without suitable training.

Antimycin A/ Rotenone

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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

FCCP No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

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Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100

SECTION 4: First aid measures

Inhalation Oligomycin No known significant effects or critical hazards.

FCCP No known significant effects or critical hazards. No known significant effects or critical hazards. Antimycin A/ Rotenone

Skin contact

No known significant effects or critical hazards. : Oligomycin

FCCP No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards.

: Oligomycin No known significant effects or critical hazards. Ingestion

FCCP No known significant effects or critical hazards.

No known significant effects or critical hazards. Antimycin A/ Rotenone

Over-exposure signs/symptoms

Eye contact : Oligomycin No specific data.

> **FCCP** No specific data. No specific data. Antimycin A/ Rotenone

Inhalation No specific data. Oligomycin **FCCP** No specific data.

Antimycin A/ Rotenone No specific data. No specific data. : Oligomycin

Skin contact FCCP No specific data. No specific data. Antimycin A/ Rotenone

: Oligomycin No specific data. Ingestion **FCCP** No specific data.

FCCP

Antimycin A/ Rotenone No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Oligomycin Treat symptomatically. Contact poison treatment specialist

> immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist Antimycin A/ Rotenone

immediately if large quantities have been ingested or inhaled.

No specific treatment. **Specific treatments** : Oligomycin **FCCP** No specific treatment.

No specific treatment. Antimycin A/ Rotenone

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire. Suitable extinguishing : Oligomycin **FCCP** Use an extinguishing agent suitable for the surrounding fire. media

Use an extinguishing agent suitable for the surrounding fire. Antimycin A/ Rotenone

Oligomycin None known. Unsuitable extinguishing **FCCP** media None known.

None known. Antimycin A/ Rotenone

5.2 Special hazards arising from the substance or mixture

Hazards from the Oligomycin No specific fire or explosion hazard. **FCCP** No specific fire or explosion hazard. substance or mixture

> Antimycin A/ Rotenone This material is very toxic 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.

Hazardous combustion

products

: Oligomycin Decomposition products may include the following materials:

halogenated compounds

metal oxide/oxides

FCCP Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Antimycin A/ Rotenone Decomposition products may include the following materials:

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SECTION 5: Firefighting measures

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

: Oligomycin

FCCP

Antimycin A/ Rotenone

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. 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. 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.

Special protective equipment for fire-fighters

: Oligomycin

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.

FCCP 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.

Antimycin A/ Rotenone 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

For non-emergency personnel

: Oligomycin

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. Put on appropriate personal protective equipment.

FCCP No action shall be taken involving any persona

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. Put on

appropriate personal protective equipment.

Antimycin A/ Rotenone 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. Provide adequate ventilation. Wear appropriate respirator when

ventilation is inadequate. Put on appropriate personal

protective equipment.

For emergency responders

: Oligomycin

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".

FCCP 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".

Antimycin A/ Rotenone If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

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SECTION 6: Accidental release measures

emergency personnel".

6.2 Environmental precautions

: Oligomycin Avoid

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).

FCCP 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).

Antimycin A/ Rotenone 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. May be harmful to the environment if released in large

quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Oligomycin

Move containers from spill area. Vacuum or sweep up

material and place in a designated, labelled waste container.

Dispose of via a licensed waste disposal contractor.

FCCP Move containers from spill area. Vacuum or sweep up

material and place in a designated, labelled waste container.

Dispose of via a licensed waste disposal contractor.

Antimycin A/ Rotenone Move containers from spill area. Vacuum or sweep up

material and place in a designated, labelled waste container.

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 : Oligomycin

pomycin Put on appropriate personal protective equipment (see

Section 8).

FCCP Put on appropriate personal protective equipment (see

Section 8).

Antimycin A/ Rotenone Put on appropriate personal protective equipment (see

Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be

hazardous. Do not reuse container.

Advice on general occupational hygiene

: Oligomycin

Antimycin A/ Rotenone

FCCP

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. 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.
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

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SECTION 7: Handling and storage

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

: Øligomycin **Storage**

Storage temperature: room temperature. Store in accordance with local regulations. 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. 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. **FCCP**

Storage temperature: room temperature. Store in accordance with local regulations. 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. 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.

Antimycin A/ Rotenone

Storage temperature: room temperature. Store in accordance with local regulations. 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. 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.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
Antimycin A/ Rotenone	100 tonne	200 tonne

7.3 Specific end use(s)

Recommendations Industrial applications, Professional applications. : Oligomycin **FCCP** Industrial applications. Professional applications.

Industrial applications, Professional applications. Antimycin A/ Rotenone

: Øligomycin **Industrial sector specific** Not available.

FCCP Not available. solutions Antimycin A/ Rotenone Not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Antimycin A/ Rotenone (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-	EH40/2005 WELs (United Kingdom (UK), 1/2020).
2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo [2,3-h]chromen-6-one	

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Øigomycin					
Sodium chloride	DNEL	Short term Oral	126.65 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Oral	126.65 mg/	General	Systemic
	DAIE		kg bw/day	population	
	DNEL	Short term Dermal	126.65 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 126.65 mg/	population General	Systemic
	DINEL	Long term Dermai	kg bw/day	population	Systemic
	DNEL	Short term Dermal	295.52 mg/	Workers	Systemic
	DIVLL	Onort term Dermai	kg bw/day	WOIKEIS	Oysternio
	DNEL	Long term Dermal	295.52 mg/	Workers	Systemic
			kg bw/day		, , , , , , , , , , , , , , , , , , , ,
	DNEL	Short term	443.28 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Long term	443.28 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	2068.62	Workers	Systemic
		Inhalation	mg/m³		
	DNEL	Long term	2068.62	Workers	Systemic
		Inhalation	mg/m³		
FCCP					
Sodium chloride	DNEL	Short term Oral	126.65 mg/	General	Systemic
Sodium chioride	DINEL	Short term Oral	kg bw/day	population	Systemic
	DNEL	Long term Oral	126.65 mg/	General	Systemic
	DIVLE	Long torm Oral	kg bw/day	population	Oystoniio
	DNEL	Short term Dermal	126.65 mg/		Systemic
			kg bw/day	population	,
	DNEL	Long term Dermal	126.65 mg/	General	Systemic
			kg bw/day	population	-
	DNEL	Short term Dermal	295.52 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term Dermal	295.52 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Short term	443.28 mg/	General	Systemic
	DNE	Inhalation	m³	population	0
	DNEL	Long term	443.28 mg/	General	Systemic
<u> </u>	1	1			l
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SECTION 8: Exposure controls/personal protection

		Inhalation	m³	population	
	DNEL	Short term	2068.62	Workers	Systemic
		Inhalation	mg/m³		
	DNEL	Long term	2068.62	Workers	Systemic
		Inhalation	mg/m³		
Antimycin A/ Rotenone					
Sodium chloride	DNEL	Short term Oral	126.65 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Oral	126.65 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Dermal	126.65 mg/	General	Systemic
		l	kg bw/day	population	
	DNEL	Long term Dermal	126.65 mg/	General	Systemic
	- · · - ·		kg bw/day	population	
	DNEL	Short term Dermal	295.52 mg/	Workers	Systemic
	DAIEI		kg bw/day	14 /	0
	DNEL	Long term Dermal	295.52 mg/	Workers	Systemic
	DAIEI	Ob 4 4	kg bw/day	0	0
	DNEL	Short term	443.28 mg/	General	Systemic
	DNEI	Inhalation	m ³	population	Cyatamia
	DNEL	Long term Inhalation	443.28 mg/ m³	General	Systemic
	DNEI			population	Systemia
	DNEL	Short term Inhalation	2068.62	Workers	Systemic
	DNEL		mg/m³ 2068.62	Workers	Systemia
	DINEL	Long term Inhalation	mg/m ³	VVOIKEIS	Systemic
		IIIIIalaliUII	mg/m		

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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. 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: safety glasses with sideshields.

Skin 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.

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.

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SECTION 8: Exposure controls/personal protection

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

Melting point/freezing

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

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Δ	n	n	Δ	2	ra	n	ce
_	ν	\mathbf{r}	v	u	<u>. u</u>		CC

Physical state : Oligomycin Solid. FCCP Solid. Antimycin A/ Rotenone Solid.

Colour : Oligomycin White.

FCCP Pale colour. / Yellow.

Antimycin A/ Rotenone White.

Odour : Oligomycin Odourless.

FCCP Odourless.
Antimycin A/ Rotenone Odourless.

Odour threshold : Oligomycin Not available. FCCP Not available.

Antimycin A/ Rotenone Not available.

Oligomycin Not available.

FCCP Not available.

point FCCP Not available.
Antimycin A/ Rotenone Not available.

Initial boiling point and
boiling range: Oligomycin
FCCP
Antimycin A/ RotenoneNot available.
Not available.

Flammability (solid, gas) : Oligomycin Not available.
FCCP Not available.
Antimycin A/ Rotenone Not available.

Upper/lower flammability: ØligomycinNot applicable.or explosive limitsFCCPNot applicable.

Antimycin A/ Rotenone Not applicable.

Flash point:

Digomycin
FCCP
Not applicable.
Not applicable.

Antimycin A/ Rotenone Not applicable.

Auto-ignition : Digomycin Not applicable.

temperature

FCCP

Antimycin A/ Rotenone

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Decomposition: OligomycinNot available.temperatureFCCPNot available.Antimycin A/ RotenoneNot available.

pH : Oligomycin Not available.
FCCP Not available.
Antimycin A/ Rotenone Not available.

Viscosity : Øligomycin Not applicable.

FCCP Not applicable.
Antimycin A/ Rotenone Not applicable.

Solubility(ies) : Digomycin Not available.
FCCP Not available.

Antimycin A/ Rotenone Not available.

Partition coefficient: noctanol/water

Antimycin A/ Rotenone Not applicable.

FCCP Not applicable.

Not applicable.

Not applicable.

Not applicable.

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SECTION 9: Physical and chemical properties

Not available. Vapour pressure Oligomycin

FCCP Not available. Not available. Antimycin A/ Rotenone

: Oligomycin Not available. **Evaporation rate**

FCCP Not available. Antimycin A/ Rotenone Not available.

Relative density Oligomycin Not available. **FCCP** Not available. Antimycin A/ Rotenone Not available.

> : Øligomycin Not applicable. **FCCP** Not applicable. Antimycin A/ Rotenone Not applicable.

Not available. : Oligomycin Oxidising properties Not available. **FCCP**

> Not available. Antimycin A/ Rotenone

Particle characteristics

Vapour density

Median particle size : Øligomycin Not available. **FCCP** Not available.

> Antimycin A/ Rotenone Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity No specific test data related to reactivity available for this : Oligomycin

product or its ingredients.

FCCP No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this Antimycin A/ Rotenone

product or its ingredients.

10.2 Chemical stability The product is stable. : Oligomycin

The product is stable. **FCCP** The product is stable. Antimycin A/ Rotenone

10.3 Possibility of : Oligomycin Under normal conditions of storage and use, hazardous

hazardous reactions reactions will not occur.

FCCP Under normal conditions of storage and use, hazardous

reactions will not occur.

Antimycin A/ Rotenone Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid : Oligomycin No specific data. No specific data. **FCCP**

No specific data. Antimycin A/ Rotenone

10.5 Incompatible : Oligomycin May react or be incompatible with oxidising materials. **FCCP** May react or be incompatible with oxidising materials. materials

May react or be incompatible with oxidising materials. Antimycin A/ Rotenone

10.6 Hazardous Under normal conditions of storage and use, hazardous : Oligomycin

decomposition products should not be produced. decomposition products **FCCP** Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Under normal conditions of storage and use, hazardous Antimycin A/ Rotenone

decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Oligomycin Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
FCCP Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Antimycin A/ Rotenone Sodium chloride Antimycin A (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	LD50 Oral LD50 Oral LD50 Oral	Rat Rat Rat	3000 mg/kg 28 mg/kg 25 mg/kg	- - -

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Ø ligomycin					
Sodium chloride	3000	N/A	N/A	N/A	N/A
FCCP					
Sodium chloride	3000	N/A	N/A	N/A	N/A
Antimycin A/ Rotenone					
Antimycin A/ Rotenone	9000.9	N/A	N/A	N/A	N/A
Sodium chloride	3000	N/A	N/A	N/A	N/A
Antimycin A	28	N/A	N/A	N/A	N/A
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro- 2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo [2,3-h]chromen-6-one	100	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Øligomycin					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
FCCP					
Sodium chloride	Eyes - Moderate irritant	Rabbit	_	24 hours 100	_
	,			mg	
	Eyes - Moderate irritant	Rabbit	_	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Antimycin A/ Rotenone					
Sodium chloride	Eyes - Moderate irritant	Rabbit	_	24 hours 100	_
	Lyco moderate imani	rtabbit		mg	
	Eyes - Moderate irritant	Rabbit	_	10 mg	_
	Skin - Mild irritant	Rabbit	_	24 hours 500	-
				mg	

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_					
(2R,6aS,12aS)-1,2,6,6a,	Eyes - Mild irritant	Rabbit	-	1 %	-
12,12a-hexahydro-					
2-isopropenyl-					
8,9-dimethoxychromeno					
[3,4-b]furo[2,3-h]chromen-					
6-one					
1		l		I	l

Sensitiser

Conclusion/Summary :

: Not available.

Mutagenicity

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
Antimycin A/ Rotenone (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Ingestion

Information on likely routes of exposure

: Oligomycin FCCP

Not available. Not available.

Antimycin A/ Rotenone

Not available.

Potential acute health effects

Inhalation : Oligomycin

FCCP No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards.

Ingestion : Oligomycin

Oligomycin

FCCP

No known significant effects or critical hazards.

Skin contact : Oligomycin

: Oligomycin No known significant effects or critical hazards.

FCCP
Antimycin A/ Rotenone

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Eye contact : Oligomycin

Oligomycin

FCCP

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Oligomycin No specific data.

FCCP No specific data.
Antimycin A/ Rotenone No specific data.
Coligomycin No specific data.
FCCP No specific data.

Skin contact : Oligomycin

Oligomycin No specific data.
FCCP No specific data.
Antimycin A/ Rotenone No specific data.

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Eye contact : Oligomycin No specific data. FCCP No specific data.

Antimycin A/ Rotenone No specific data.

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

General : Oligomycin No known significant effects or critical hazards.

FCCP No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

No known significant effects or critical hazards.

Carcinogenicity : Oligomycin No known significant effects or critical hazards. FCCP No known significant effects or critical hazards.

FCCP No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards.

Mutagenicity : Oligomycin No known significant effects or critical hazards.

FCCP No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards.

Reproductive toxicity: Øligomycin No known significant effects or critical hazards.

FCCP No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Øligomycin			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 μg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
FCCP			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca -	3 weeks
		Juvenile (Fledgling, Hatchling, Weanling)	
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days

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	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
Antimycin A/ Rotenone			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 519.6 mg/l Fresh water	Algae - Navicula seminulum Crustaceans - Cypris subglobosa	96 hours 48 hours
	Acute EC50 402.6 mg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water	Daphnia - Daphnia magna Aquatic plants - Lemna minor Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 96 hours 96 hours 3 weeks
	Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 21 days 8 weeks
Antimycin A	Acute EC50 0.024 ppm Marine water	Crustaceans - Penaeus duorarum	48 hours
(2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	Acute LC50 0.000019 mg/l Fresh water Acute EC50 190 μg/l Fresh water	Fish - Oncorhynchus mykiss Crustaceans - Simocephalus serrulatus - Larvae	96 hours 48 hours
	Acute EC50 3.7 μg/l Fresh water Acute LC50 1.9 ppb Fresh water Chronic NOEC 0.3 ppb Fresh water Chronic NOEC 1.01 ppb	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours 21 days 32 days

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Antimycin A/ Rotenone (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	4.1	25.7	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

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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

Packaging

Methods of disposal

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

: 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.

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. 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	⊮ N3316	☑ N3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	MEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)			9
14.4 Packing group	W.	I	II
14.5 Environmental hazards	y es.	y es.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Remarks: De minimis quantities

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 90 Limited quantity See SP 251 Special provisions 251, 340, 671

Tunnel code (E)

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-A, _S-P_

Special provisions 251, 340

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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.

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SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments

: 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.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous

substances, mixtures and articles

Label : Oligomycin Not applicable.

FCCP Not applicable.
Antimycin A/ Rotenone Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

Antimycin A/ Rotenone

E1

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

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 : Not determined.
China : Not determined.
Europe : Not determined.

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SECTION 15: Regulatory information

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **United States** : Not determined. **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]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
,	Calculation method Calculation method

Full text of abbreviated H statements

Oligomycin H319	Causes serious eye irritation.
FCCP H319	Causes serious eye irritation.
Antimycin A/ Rotenone	
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

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SECTION 16: Other information

Oligomycin

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

FCCP

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Antimycin A/ Rotenone

Acute Tox. 2 **ACUTE TOXICITY - Category 2** ACUTE TOXICITY - Category 3 Acute Tox. 3

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SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Acute 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Eve Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Skin Irrit. 2

SKIN CORROSION/IRRITATION - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

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Notice to reader

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