

SAFETY DATA SHEET

R8111 Reference electrode, Part Number 5190-4003

Section 1. Identification

Product identifier : R8111 Reference electrode, Part Number 5190-4003
Part No. (Chemical Kit) : 5190-4003
Part No. : * R8111 electrode Reference solution R8111 5190-0545-1

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

Analytical chemistry.

R8111 electrode Electrodes. (1 x 10 ml)
 Reference solution 1 x 30 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: (61)-290372994

Note * : This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Section 2. Hazard(s) identification

Classification of the substance or mixture

R8111 electrode
 H400 ACUTE AQUATIC HAZARD - Category 1
 H410 LONG-TERM AQUATIC HAZARD - Category 1

Reference solution
 H400 ACUTE AQUATIC HAZARD - Category 1
 H410 LONG-TERM AQUATIC HAZARD - Category 1

GHS label elements

Hazard pictograms



Signal word : R8111 electrode Reference solution WARNING WARNING

Hazard statements : R8111 electrode H410 - Very toxic to aquatic life with long lasting effects.
 Reference solution H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : R8111 electrode Reference solution P273 - Avoid release to the environment.
 P273 - Avoid release to the environment.

Section 2. Hazard(s) identification

Response	: R8111 electrode Reference solution	P391 - Collect spillage. P391 - Collect spillage.
Storage	: R8111 electrode Reference solution	Not applicable. Not applicable.
Disposal	: R8111 electrode Reference solution	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.
Supplemental label elements	: R8111 electrode Reference solution	Not applicable. Not applicable.
Other hazards which do not result in classification	: R8111 electrode Reference solution	None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: R8111 electrode Reference solution	Mixture (encapsulated in article) Mixture
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CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
R8111 electrode Glycerol Silver chloride	≥10 - ≤30 ≤5	56-81-5 7783-90-6
Reference solution Silver chloride	≤1	7783-90-6

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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: R8111 electrode Reference solution	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. 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.
Inhalation	: R8111 electrode Reference solution	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. Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

Skin contact : R8111 electrode

Reference solution

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.

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. 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 : R8111 electrode

Reference solution

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.

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : R8111 electrode
Reference solution

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

Inhalation : R8111 electrode
Reference solution

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

Skin contact : R8111 electrode
Reference solution

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

Ingestion : R8111 electrode
Reference solution

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

Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact	: R8111 electrode Reference solution	No specific data. No specific data.
Inhalation	: R8111 electrode Reference solution	No specific data. No specific data.
Skin contact	: R8111 electrode Reference solution	No specific data. No specific data.
Ingestion	: R8111 electrode Reference solution	No specific data. No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: R8111 electrode Reference solution	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.
Specific treatments	: R8111 electrode Reference solution	No specific treatment. No specific treatment.
Protection of first-aiders	: R8111 electrode Reference solution	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. 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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: R8111 electrode Reference solution	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: R8111 electrode Reference solution	None known. None known.
Specific hazards arising from the chemical	: R8111 electrode Reference solution	In a fire or if heated, a pressure increase will occur and the container may burst. 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. In a fire or if heated, a pressure increase will occur and the container may burst. 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 thermal decomposition products	: R8111 electrode Reference solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides Decomposition products may include the following

Section 5. Firefighting measures

materials:
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters : R8111 electrode

Reference solution

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 : R8111 electrode

Reference solution

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazchem code : R8111 electrode
Reference solution

•3Z

•3Z

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : R8111 electrode

Reference solution

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : R8111 electrode

Reference solution

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". 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".

Environmental precautions : R8111 electrode

Reference solution

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. 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,

Section 6. Accidental release measures

soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and material for containment and cleaning up

Methods for cleaning up : R8111 electrode

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Reference solution

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : R8111 electrode

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.

Reference solution

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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 : R8111 electrode

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.

Reference solution

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.

Conditions for safe storage, including any incompatibilities : R8111 electrode

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.

Section 7. Handling and storage

Reference solution

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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
R8111 electrode Glycerol Silver chloride Reference solution Silver chloride	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours. ACGIH TLV (United States). TWA: 0.1 mg/m ³ , (Silver.) Form: Dust and fumes ACGIH TLV (United States). TWA: 0.1 mg/m ³ , (Silver.) Form: Dust and fumes

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.

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 side-shields.
- 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.

Section 8. Exposure controls and personal protection

- 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.

Section 9. Physical and chemical properties

Appearance

Physical state	: R8111 electrode	Liquid.
	: Reference solution	Liquid.
Colour	: R8111 electrode	White.
	: Reference solution	White.
Odour	: R8111 electrode	Not available.
	: Reference solution	Not available.
Odour threshold	: R8111 electrode	Not available.
	: Reference solution	Not available.
pH	: R8111 electrode	6
	: Reference solution	6
Melting point	: R8111 electrode	-25°C (-13°F)
	: Reference solution	0°C (32°F)
Boiling point	: R8111 electrode	110°C (230°F)
	: Reference solution	100°C (212°F)
Flash point	: R8111 electrode	Not available.
	: Reference solution	Not available.
Evaporation rate	: R8111 electrode	Not available.
	: Reference solution	Not available.
Flammability (solid, gas)	: R8111 electrode	Not applicable.
	: Reference solution	Not applicable.
Lower and upper explosive (flammable) limits	: R8111 electrode	Not available.
	: Reference solution	Not available.
Vapour pressure	: R8111 electrode	Not available.
	: Reference solution	Not available.
Vapour density	: R8111 electrode	Not available.
	: Reference solution	Not available.
Relative density	: R8111 electrode	1.1
	: Reference solution	1
Solubility	: R8111 electrode	Easily soluble in the following materials: cold water and hot water.
	: Reference solution	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: R8111 electrode	Not available.
	: Reference solution	Not available.
Auto-ignition temperature	: R8111 electrode	Not available.
	: Reference solution	Not available.
Decomposition temperature	: R8111 electrode	Not available.
	: Reference solution	Not available.
Viscosity	: R8111 electrode	Not available.
	: Reference solution	Not available.

Section 10. Stability and reactivity

Reactivity	: R8111 electrode Reference solution	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.
Chemical stability	: R8111 electrode Reference solution	The product is stable. The product is stable.
Possibility of hazardous reactions	: R8111 electrode Reference solution	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: R8111 electrode Reference solution	No specific data. No specific data.
Incompatible materials	: R8111 electrode Reference solution	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
Hazardous decomposition products	: R8111 electrode Reference solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
R8111 electrode				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Silver chloride	LD50 Oral	Rat	>5000 mg/kg	-
Reference solution				
Silver chloride	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
R8111 electrode					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Section 11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : *R8111 electrode Reference solution

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

Potential acute health effects

Eye contact : *R8111 electrode Reference solution

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

Inhalation : *R8111 electrode Reference solution

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

Skin contact : *R8111 electrode Reference solution

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

Ingestion : *R8111 electrode Reference solution

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

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : *R8111 electrode Reference solution

No specific data.
No specific data.

Inhalation : *R8111 electrode Reference solution

No specific data.
No specific data.

Skin contact : *R8111 electrode Reference solution

No specific data.
No specific data.

Ingestion : *R8111 electrode Reference solution

No specific data.
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

Not available.

General : *R8111 electrode Reference solution

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

Carcinogenicity : *R8111 electrode Reference solution

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

Mutagenicity : *R8111 electrode Reference solution

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

Teratogenicity : *R8111 electrode Reference solution

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

Developmental effects : *R8111 electrode Reference solution

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

Section 11. Toxicological information

Fertility effects : R8111 electrode Reference solution No known significant effects or critical hazards.
No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
R8111 electrode Glycerol Silver chloride	Acute LC50 54000 mg/l Fresh water Acute LC50 5.3 µg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Lepidocephalichthys guntea	96 hours 96 hours
Reference solution Silver chloride	Acute LC50 5.3 µg/l Fresh water	Fish - Lepidocephalichthys guntea	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
R8111 electrode Glycerol Silver chloride	-1.76 -	- 70	low low
Reference solution Silver chloride	-	70	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spill material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

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.

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

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Australia inventory (AICS) : All components are listed or exempted.

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 Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

- Canada** : All components are listed or exempted.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : **Japan inventory (ENCS):** All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
Malaysia : All components are listed or exempted.
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.
Turkey : Not determined.
United States : All components are listed or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 28/07/2016
Date of previous issue : 25/07/2014.
Version : 3

Key to abbreviations

: ADG = Australian Dangerous Goods
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 NOHSC = National Occupational Health and Safety Commission
 SUSMP = Standard Uniform Schedule of Medicine and Poisons
 UN = United Nations

Procedure used to derive the classification

Classification	Justification
R8111 electrode Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Reference solution Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Calculation method Calculation method Calculation method Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Note * : This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Notice to reader

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