

# Approved form

## Environmental Protection Act 1994

### Transitional environmental program

This form must be used when proposing a transitional environmental program (TEP) to the administering authority pursuant to section 331 of the Environmental Protection Act 1994. For further information on TEPs refer to the Transitional Environmental Programs Guideline (ESR/2016/2277) and Annual return for a transitional environmental program form (ESR/2016/2139).

#### TRANSITIONAL ENVIRONMENTAL PROGRAM FOR Replacement of firefighting foams used in fire suppression systems on locomotives] Section 330 of the *Environmental Protection Act 1994*

**Individual or Company Responsible:** Aurizon Operations Limited  
900 Ann Street, Fortitude Valley QLD 4006  
124 649 967

**Environmental Authority number (if relevant)** N/A  
**Environmental Authority holder names (if relevant)** N/A  
**Development Approval number (if relevant)** N/A

**Title:** [Replacement of firefighting foams used in fire suppression systems on 147 locomotives]

**Date:** 24th May 2019

**Reason for TEP:** section 330(a): Reduce environmental harm caused by the activity:

*MA*

*Administrative change made by Aurizon*  
*Mark Harris*

**Site details:** [Operations in Queensland rail corridors and servicing locations at Garfield Street, Callemondah QLD 4680 on Lot 155 SP126513; 49 Brookhouse Street, Stuart QLD 4811 on Lot 13 SP300658; Armstrong Beach Road, Jilalan, Sarina QLD 4737 on Lot 101 SP10858; and Davidson Street, Willowburn. QLD 4350 on Lot 2 RP17282 and Lot 2 RP17294]

**Period of TEP:** [section 331(f): 2.5 years (30 months)]

**Start date:** [9 July 2019]

**Finish date:** [14th January 2022]

### **Content of Program:**

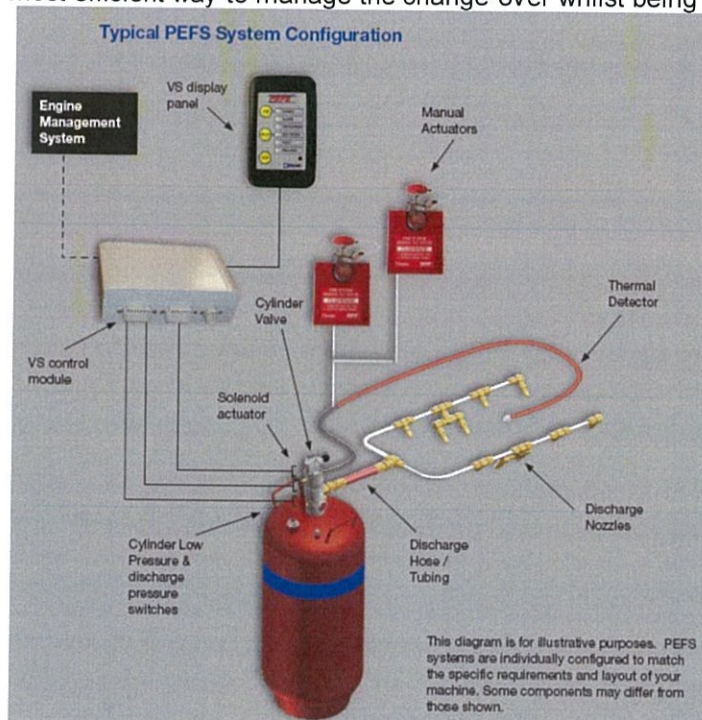
The Qld Department of Environment & Science's (DES) (July 2016) Operational Policy - Environmental Management of Firefighting Foam ("the Policy") requires firefighting foams that contain specified fluorinated organic compounds be withdrawn from service and appropriately disposed by the 7 July 2019.

In Queensland, three classes (2800, 4000 and 4100) of Aurizon locomotives (comprising 147 locomotives) are fitted with on board fire suppression systems. The fire suppression systems consist of one 65 Litre cylinder mounted in a horizontal position above the alternator cab or above the filter bank in a clean air compartment. The cylinder is filled with 50 litres of foam solution, a small constituent of which is an Aqueous Film Forming Foam concentrate that contains the persistent fluorinated organic compounds addressed by the Policy.

When a fire is detected, the fire suppression systems are designed to spray foam into the engine bay from the storage cylinder. The foam fills the engine compartment and suppresses the fire to facilitate safe train crew egress. Discharged foam is retained in the engine bay and, as it collapses, drains into the engine bay's sludge tank. The foam is completely enclosed within the sludge tank (the risk of discharging to the receiving environment is low). The locomotive is then towed to a maintenance facility, and the contents of the receiving sludge tank are removed by an appropriately licenced waste contractor. The licenced waste contractor then lawfully disposes of the sludge tank contents. The incidence of engine fires on these three classes of locomotive is rare, with only three fires recorded in Queensland since May 2017.

Aurizon has identified a permanent solution to replace the non-compliant firefighting foams with a compliant foam solution, referred to as Chubb PEFS F3 Foam Concentrate. A Safety Data Sheet (SDS) for this product is provided as a supporting document to this application.

Due to the configuration of the fire suppression system componentry (shown below), it is not possible to simply "swap out" the non-compliant foam storage cylinder with an equivalent compliant part. Changing the storage cylinder requires replacement of the entire fire suppression system. Aurizon has completed a detailed assessment of the time demands associated with a fire suppression system replacement, and determined that alignment with each locomotive's scheduled major maintenance service provides the most efficient way to manage the change-over whilst being mindful of Aurizon's ongoing operations.



The replacement program will occur progressively over a period of 18-30 months (aligned with the affected locomotives' scheduled maintenance services). A schedule which outlines the anticipated progress of the replacement program is provided as a supporting document to this application. For the purposes of this TEP application, contingency has been added to the displayed schedule to offset unforeseen delays. The other classes of locomotive shown in the schedule (ACN, 3200, PA) are not operated in Queensland. The replacement program will be undertaken across Aurizon's national footprint.

**TABLE 1**

**Objective(s)** [section 331(a)]

State the objectives to be achieved and maintained under the TEP for the activity. The objectives must be **specific** and **clear** and **relate to achieving compliance** with the Act, the *Environmental Protection Regulation 2008*, environmental protection policies, or if relevant, the conditions of approval.

1. An objective of the TEP is to withdraw all non-compliant foam concentrates, which contain fluorinated organic compounds and form part of the onboard fire-suppression systems of 147 locomotives, from service and ensure their appropriate and lawful disposal as required by the Policy.

2. An objective of the TEP is to permanently replace the non-compliant foam concentrates with compliant foam concentrates which necessitate the replacement of the entire onboard fire-suppression systems of 147 locomotives.

**Actions** [section 331(b)]

List the actions to be taken to achieve each of the objectives.

Actions must take into account:

1. Best practice environmental management for the activity (including how these measures stand against the measures currently used nationally and internationally for the activity [section 331(b)(i)]); and
2. The risks of environmental harm being caused by the activity (including the proposed actions, how the risks have been considered and how they will be treated or mitigated [section 331(b)(ii)]).

**Commencement date**

[section 331(b)]

A start and finishing date for each action or groups of actions must be included.

**Completion date**

**1 Ordering and receiving replacement fire suppression systems (including compliant foam solution), and undertaking of initial testing, fitting and commissioning of replacement systems in a locomotive from each class.**

**9 July 2019**

**9 March 2020**

2. Roll out of replacement program to all remaining locomotives.

**9 March 2020**

**14 January 2022**

| <b>Performance indicators</b> [section 331(g)]<br><br>Detail how and when each action will be measured to indicate that the action was completed successfully and that the objective of the TEP is being achieved.<br><br>Performance indicators must not be measured more than six months apart [section 331(g)] and must be quantitative (that is, able to be measured, assessed and audited in a consistent, objective and repeatable manner). | <b>Commencement date</b>                                   | <b>Completion date</b>  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------|
| <b>1. Once obtained, the replacement fire-suppression systems will be checked by a suitably experienced contractor to confirm the constituent foam solution is compliant with the Policy.</b>                                                                                                                                                                                                                                                     | <b>9 July 2019</b>                                         | <b>31 October 2019</b>  |
| <b>2. The time taken to install, test and commission the replacement fire suppression systems for each of the initial locomotives will be measured, and used to refine the roll-out program for the balance of the fleet.</b>                                                                                                                                                                                                                     | <b>1 November 2019</b>                                     | <b>28 February 2020</b> |
| <b>3. An audit of the roll-out program for the locomotive fleet will be undertaken at six-monthly intervals to identify and confirm (a) additional efficiencies which could be incorporated into the program (b) potential for delays to the program's delivery (c) lawful disposal of fluorinated compounds by a licenced waste contractor (i.e. Waste Tracking Certificates).</b>                                                               | <b>1 August 2020<br/>1 February 2021<br/>1 August 2021</b> | <b>14 January 2022</b>  |

**Approved form**  
**Transitional environmental program**

| <b>Monitoring</b><br>[section 331(h)]<br><br>Provide details of the monitoring activities required to ensure compliance with the proposed TEP actions and dates.<br><br>This includes details of who will conduct the activities, how monitoring needs to occur and the environmental and scientific testing that may be required.                                                                                                                                                                                                                                    | <b>Commencement date</b>                                         | <b>Completion date</b>                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|
| <b>1. Regular audits of the replacement program will be completed at a minimum of six monthly intervals. The audits will be completed by a rollingstock engineer and an environmental advisor and document progress against the program, opportunities for improvement and compliance with the provisions of the Environmental Protection Act 1994 that relate to disposal of regulated waste (i.e. appropriately completed Waste Tracking Certificates which document disposal of fluorinated compounds contained within the replaced fire suppression systems).</b> | <b>1 August 2020</b><br><br>1 February 2021<br><br>1 August 2021 | <b>14</b><br><b>January</b><br><b>2022</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                            |

| <b>Reporting [section 331(h)]</b><br><br>Regular progress reports are to be provided to EHP on specified dates including monitoring results, a description of activities and issues from the previous month and any proposed activities for the next month.<br><br>A final report describing how the objective(s) of the TEP was achieved must be provided within one month of the final action being completed and prior to the end date of the TEP.<br><br>Failure to carry out prescribed actions must be reported.                                      | <b>Commencement date</b> | <b>Completion date</b>  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|
| 1. A progress report <b>will be prepared every 6 months</b> detailing the actions taken, <b>performance indicators</b> achieved, <b>any changes to the replacement program</b> and the forecasted actions to be undertaken for the <b>forthcoming reporting period</b> , and will be provided to <b>the DES every 6 months</b> .<br><br>2. <b>The 6 month report</b> will also include any <b>details regarding lawful disposal of the replaced fire suppression systems (specifically the fluorinated compounds contained within the foam component)</b> . | <b>9 July 2019</b>       | <b>14 January 2022</b>  |
| 3. A final report describing how the objectives of the TEP were achieved will be provided to <b>DES</b> on or before <b>14 February 2022</b> .                                                                                                                                                                                                                                                                                                                                                                                                              | <b>15 January 2022</b>   | <b>14 February 2022</b> |

## Declaration

As per section 481 of the *Environmental Protection Act 1994*, it is an offence to state anything to an authorised person that you know is false or misleading in a material particular or omit from a statement made to an authorised person anything without which the statement is, to your knowledge, misleading in a material particular.

I declare that:

- I do solemnly and sincerely declare that the information provided is true and correct to the best of my knowledge. I understand that it is an offence under section 480 of the *Environmental Protection Act 1994* to give to the administering authority, or an authorised person, a document containing information that I know is false, misleading or incomplete in a material particular<sup>1</sup>.
- I understand that information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

|                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INDIVIDUAL OR IF COMPANY, EXECUTIVE OFFICER NAME<br><div style="text-align: center; font-family: cursive;">Michael Carter</div>                             |
| SIGNATURE<br><div style="text-align: center; font-family: cursive;">M. Carter</div>                                                                         |
| POSITION OF SIGNATORY (IF RELEVANT)<br><div style="text-align: center; font-family: cursive;">GRP. GROUP EXECUTIVE, TECHNICAL SERVICES &amp; PLANNING</div> |
| DATE<br><div style="text-align: center; font-family: cursive;">31.5.19</div>                                                                                |

**Please return your completed application to**

**Post:**

Department of Environment and  
Heritage Protection  
GPO Box 2454  
BRISBANE QLD 4001

**Courier or hand delivery:**

Permit and Licence Management  
Department of Environment and Heritage Protection  
Level 3, 400 George Street  
BRISBANE QLD 4000  
Business hours: 8:30am–4:30pm business days

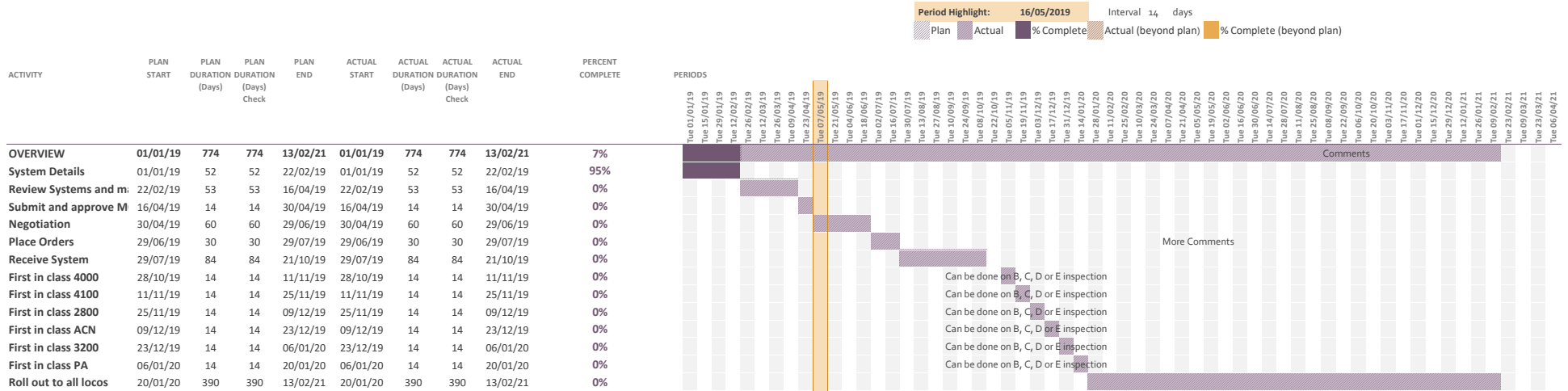
**Enquiries:**

Permit and Licence Management  
Phone: 1300 130 372  
Fax: (07) 3330 5875  
Email: [palm@ehp.qld.gov.au](mailto:palm@ehp.qld.gov.au)



# Management of Change Implementation Plan - Project Planner

|               |             |                 |            |             |  |
|---------------|-------------|-----------------|------------|-------------|--|
| COMPLETED BY: | Laura Kinch | DATE COMPLETED: | 11/02/2019 | MOC NUMBER: |  |
|---------------|-------------|-----------------|------------|-------------|--|



# SAFETY DATA SHEET

## CHUBB PEFS F3 FOAM CONCENTRATE

Infosafe No.: LQ7TJ  
ISSUED Date: 17/04/2017  
Issued by: CHUBB FIRE & SECURITY

### 1. IDENTIFICATION

**GHS Product Identifier**

CHUBB PEFS F3 FOAM CONCENTRATE

**Company Name**

CHUBB FIRE & SECURITY

**Address**

314 Boundary Road Dingley  
Vic 3172 Australia

**Telephone/Fax Number**

Tel: +61 (3) 9264 9813

Fax: +61 (03) 9264 9751

**Emergency phone number**

1300 369 309 (Business hours: 24/7)

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

Extinguishing fires.

### 2. HAZARD IDENTIFICATION

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Eye Damage/Irritation: Category 2A

Hazardous to the Aquatic Environment - Acute Hazard: Category 3

Sensitization - Skin: Category 1

**Signal Word (s)**

WARNING

**Hazard Statement (s)**

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life.

**Pictogram (s)**

Exclamation mark



**Precautionary statement – Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.

**Precautionary statement – Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredients**

| Name                         | CAS        | Proportion |
|------------------------------|------------|------------|
| 2-(2-butoxyethoxy) ethanol   | 112-34-5   | <10 %      |
| Anionic surfactant           |            | <3 %       |
| Decyl Glucoside              | 58846-77-8 | <2 %       |
| Cocamidopropyl betaine       | 61789-40-0 | <1 %       |
| Amphoteric surfactant        | -          | <1 %       |
| 3-Isothiazolone, 2-methyl-   | 2682-20-4  | 0.05% *    |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5  | 0.05% *    |

**Other Information**

\* One or both of these components may be present at up to 0.05% as a combined total.

### 4. FIRST-AID MEASURES

**Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

**Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

**Skin**

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

**Eye contact**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

**First Aid Facilities**

Eyewash, safety shower and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

**Other Information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use appropriate fire extinguisher for surrounding environment.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes including nitrous vapours, sulphur oxides, carbon monoxide and carbon dioxide.

**Specific Hazards Arising From The Chemical**

This product is non-combustible.

**Decomposition Temperature**

Not available

**Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## 6. ACCIDENTAL RELEASE MEASURES

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**Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling**

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene by washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight. Protect from freezing. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

**Storage Temperatures**

0 - 50°C

**Recommended Materials**

High-density polyethylene (HDPE).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Occupational exposure limit values**

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

**Biological Limit Values**

No biological limits allocated.

**Appropriate Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient suitable respiratory protection must be worn.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye Protection**

Safety glasses with side shields, full face shield or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material such as butyl rubber. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Properties                                    | Description   | Properties                       | Description    |
|-----------------------------------------------|---------------|----------------------------------|----------------|
| <b>Form</b>                                   | Liquid        | <b>Appearance</b>                | Liquid         |
| <b>Colour</b>                                 | Brown         | <b>Odour</b>                     | Mild           |
| <b>Decomposition Temperature</b>              | Not available | <b>Melting Point</b>             | 0°C            |
| <b>Boiling Point</b>                          | 100°C         | <b>Solubility in Water</b>       | Completely     |
| <b>Specific Gravity</b>                       | 1.05 (20°C)   | <b>pH</b>                        | 7.0-8.5 (100%) |
| <b>Vapour Pressure</b>                        | 24 hPa (20°C) | <b>Vapour Density (Air=1)</b>    | 1              |
| <b>Evaporation Rate</b>                       | Not available | <b>Odour Threshold</b>           | Not available  |
| <b>Viscosity</b>                              | Not available | <b>Volatile Component</b>        | Not available  |
| <b>Partition Coefficient: n-octanol/water</b> | Not available | <b>Flash Point</b>               | Not available  |
| <b>Flammability</b>                           | Not flammable | <b>Auto-Ignition Temperature</b> | Not available  |
| <b>Flammable Limits - Lower</b>               | Not available | <b>Flammable Limits - Upper</b>  | Not available  |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not available

### Chemical Stability

Stable under normal conditions of handling and storage.

### Conditions to Avoid

Extremes of temperature. Heat sources.

### Incompatible materials

Not available

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including nitrous vapours, sulphur oxides, carbon monoxide and carbon dioxide.

### Possibility of hazardous reactions

Not available

### Hazardous Polymerization

Not available

## 11. TOXICOLOGICAL INFORMATION

### Toxicology Information

The available toxicity data is given below.

### Acute Toxicity - Oral

**Product:**

LD50(rat): >2000 mg/kg

2-(2-butoxyethoxy) ethanol

LD50(rat): 2410 mg/kg

**Acute Toxicity - Dermal**

2-(2-butoxyethoxy) ethanol:

LD50 (rat): 2764 mg/kg

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Inhalation**

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

**Skin**

May be irritating to skin. The symptoms may include redness, itching and swelling. May cause an allergic skin reaction

**Eye**

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Product (Rabbit): Moderately irritating.

**Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

May cause an allergic skin reaction

**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Harmful to aquatic life.

**Persistence and degradability**

Readily biodegradable in water.

Biological Oxygen Demand (BOD): 73% (28 days, OECD 301D)

**Mobility**

Soluble in water. Volatile Organic Compounds (VOC): 0%

**Bioaccumulative Potential**

Components:

log Pow: <3

Not bioaccumulative

**Other Adverse Effects**

Not dangerous to the ozone layer. Harmless to activated sludge at sufficient dilution.

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

**Acute Toxicity - Fish**

LC50 (Salmo Gairdneri/Onchorhynchus Mykiss): 42 mg/l/96h

EC50 (Fundulus Heteroclitus - Slatwater Killifish): 150 mg/l/96h

**Acute Toxicity - Daphnia**

EC50 (Daphnia Magna): 644 mg/l/48h

**Acute Toxicity - Algae**

EC50 (Selenastrum Capricornutum): >6.9 mg/l/96h

### 13. DISPOSAL CONSIDERATIONS

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**Disposal considerations**

Dispose of waste according to applicable local and national regulations.

**Other Information**

Contains no organic halogen which may add to the AOX value.

### 14. TRANSPORT INFORMATION

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**Transport Information**

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**U.N. Number**

None Allocated

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**Special Precautions for User**

Not available

**IMDG Marine pollutant**

No

**Transport in Bulk**

Not available

### 15. REGULATORY INFORMATION

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

Not Scheduled

### 16. OTHER INFORMATION

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**Date of preparation or last revision of SDS**

SDS Created: April 2017

## References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

## END OF SDS

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