

Document no: 351VN Effective Date: July 2016 Revision no: March 2019 (2) Product Code: HERAMETREX410EC/VN

# RAMETREX 410 EC

# SAFETY DATA SHEET

**PRODUCT** CHEMICAL AND **COMPANY** H400 Aquatic acute Aquatic acute 1 **IDENTIFICATION** Aquatic chronic Aquatic chronic 1 H410

**Product Name: RAMETREX 410 EC** 

Other identifier: Bromoxynil as the octanoate

100 g/ $\ell$  + **Dicamba** 30 g/ $\ell$  +

**MCPA** 

as the iso-octyl ester 280 g/e Recommended use: Herbicide Restrictions on use: Agriculture

Villa Crop Protection (Pty) Ltd. Supplier:

PO Box 10413

Aston Manor, 1630, South Africa

(011) 396 2233 Telephone: Fax: (011) 396 4666 Website: www.villacrop.co.za

**Emergency telephone numbers:** 24 Hr Transport / Spill emergency no:

Envirosure. +27 31 205 4918 (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

Griffon Poison Information Centre +27 82 446 8946

(Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946 Poisons Information Centre +27 861 555 777

**Villa Crop Protection Emergency number:** 

National Safety, Health and Environmental Manager:

+27 63 698 0668

## 2. HAZARDS IDENTIFICATION

| UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008 |                   |              |  |
|---|-------------------|--------------|--|
| Hazard classes  | Hazard categories | H-statements |  |
| Physical  |                   |              |  |
| Flammability  | Flam. Liq. 4      | H227         |  |
| Health  |                   |              |  |
| Oral  | Acute Tox. 4      | H302         |  |
| Dermal  | Skin Irrit. 3     | H316         |  |
|   | Skin Sens. 1B     | H317         |  |
| Eye   | Eye irrit. 2B     | H320         |  |
| Inhalation  | Acute Tox. 5      | H333         |  |
|   |                   |              |  |
|   |                   |              |  |
| Reproductive  | Repr. 2           | H361d        |  |
| toxicity  |                   |              |  |
| Aspiration  | Asp. 2            | H305         |  |
| toxicity  |                   |              |  |
| Environment   |                   |              |  |

The most important adverse effects:

Physiochemical effects: Combustible liquid.

**Human health effects:** 

Suspected of damaging fertility or the unborn child.

Label elements:



Signal word: Warning Hazard statements: H227: Combustible liquid. H302: Harmful if swallowed.

H305: May be harmful if swallowed and enters airways.

H316: Causes mild skin irritation.

H317: May cause an allergic skin reaction.

H320: Causes eye irritation.

H361d: Suspected of damaging the unborn child.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements:** 

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264: Wash skin and eyes thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear impervious rubber gloves and chemical safety goggles.

P301/310: IF SWALLOWED: Immediately call a POISON CENTER.

P302/352: IF ON SKIN: Wash with plenty of water and

P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P308/313: If exposed or concerned: Get medical attention.

P331: Do NOT induce vomiting.

P333/313: If skin irritation or rash occurs: Get medical advice.

P337/313: If eye irritation persists: Get medical advice.

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulations.

Special labelling of certain mixtures: None known.

Other hazards: None known.

Toxicity:

Classification according to GHS: Category 4



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# **RAMETREX 410 EC**

Classification according to WHO: Category II

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

| Composition                 |                |                     | = -   |
|-----------------------------|----------------|---------------------|---|
| Chemical<br>Name            | CAS            | Conc.<br>(m/v<br>%) | Classification EC<br>1272/2008  |
| Bromoxynil as the octanoate | 1689-99-2      | 10%                 | Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Sens. 1 (H317) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| Dicamba                     | 1918-00-9      | 3%                  | Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Chronic 3 (H412)                         |
| MCPA the iso-octyl ester    | 94-74-6        | 28%                 | Acute tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)                  |
| Ethoxylated castor oil      | 61791-12-<br>6 | 5.79%               | Eye irrit. 2 (H319)   |
| Emulsifier                  | 90194-26-<br>6 | 2.84%               | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)   |
|                             | 78-83-1        | 1.9%                | Flam. Liq. 3 (H226)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>STOT SE 3 (H335)<br>STOT SE 3 (H336)                    |
| Aromatic hydrocarbon        | 64742-94-<br>5 | 29.55<br>%          | Asp. Tox. 1 (H304)  |

#### 4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. Treat symptomatically and supportively. Single exposure to vapours is not likely to be hazardous.

#### Skin:

Remove contaminated clothing and shoes. Gently wipe of excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Seek medical advice if necessary. Persons who become sensitised may require

specialised medical management with anti-inflammatory agents.

**Eyes:** Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. If eye irritation persists, get medical advice.

**Ingestion:** Unlikely to occur under occupational conditions. In case of deliberate ingestion, have victim rinse mouth thoroughly with water. **Do not induce vomiting.** Give plenty of water to drink (1 to 2 glasses). Seek medical advice immediately.

**Anticipated acute effects:** May be harmful if swallowed and enters airways.

**Anticipated delayed effects:** Suspected of damaging the unborn child.

Most important symptoms/effects: None known.

**Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

# 5. FIRE-FIGHTING MEASURES

## **Suitable Extinguishing Media:**

Carbon dioxide, dry chemical powders, foam and water.

**Unsuitable Extinguishing Media:** Water jet due to contamination risk. Use a water jet only to cool heated containers.

**Specific hazards:** Hazardous gases may be released upon combustion.

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

**Personal protective equipment:** Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin and eyes. Do not breathe in vapours or spray mist.

**Protective equipment:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Emergency procedures:** Alert firefighting personnel, evacuate unprotected personnel and animals.

**Environmental Precautions:** Prevent spilled product from entering sewers, waterways or ground water as the product is classified to be very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic



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environment. Any spillages or uncontrolled discharges into water courses should be immediately reported to the police and the Department of Water/Environmental Affairs. **Methods and Materials for Containment:** Contain spilled product by diking area with sand or earth.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

| 7 | ΗΔ | NDI  | ING   | <b>AND</b> | ST | OR       | <b>AGF</b> |
|---|----|------|-------|------------|----|----------|------------|
|   |    | INDL | -1143 |            | O. | $\omega$ | ᆪᇇ         |

#### Handling

Precautions for safe handling: Avoid contact with skin and eyes. May be harmful if inhaled, ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

**General occupational hygiene:** Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used again.

## Storage:

Conditions for safe storage: Store under lock and key in its original container in dry, cool, well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

**Incompatible substances and mixtures:** Refer to product label.

Packaging material: Fluorinated plastic containers.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

## Permissible concentration

| Permissible concentration |                    |                        |                 |  |
|---------------------------|--------------------|------------------------|-----------------|--|
| Components                | Exposure<br>limits | Type of exposure limit | Source          |  |
| Bromoxynil as             | 2.3 mg/m3          | 1                      | Supplier<br>SDS |  |
| the octanoate             |                    |                        | SDS             |  |
| Dicamba                   | Not                | Not                    | /               |  |

|               | available | available |             |
|---------------|-----------|-----------|-------------|
| MCPA the iso- | Not       | Not       | /           |
| octyl ester   | available | available |             |
| Iso-butanol   | 50 ppm    | 8 h TWA   | OSHA<br>PEL |

Engineering Controls: It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment: Respiratory Protection: If inhalation is likely to occur (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator with cartridges/canisters approved for organic vapours.

**Hand Protection:** The use of chemically protective impervious gloves is recommended to prevent against skin contact with this mixture.

**Eye Protection:** The use of chemical safety goggles or a face shield is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

**Skin and Body Protection:** Employee must wear appropriate protective impervious clothing; Rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent brown liquid.
Odour: Aromatic hydrocarbon odour.
pH (1 % aqueous dilution): 3.6.
Melting point: Not available.
Freezing Point: Not available.
Boiling Point: Not available.
Flash Point: Not available.

Upper/lower explosion limits: Not available. Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available.

**Density:** 1.053 (22°C ±2). **Solubility:** Emulsifies in water.

Flammability: Not available.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

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| 10. STABI | LITY AND | REACTIVITY |  |
|-----------|----------|------------|--|
|           |          |            |  |

**Chemical Stability:** Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

**Storage stability:** Stable for up to 2 years when stored in a dry, cool covered warehouse in original, well-labelled containers. Store at low temperature conditions, below 50°C, preferably below 30 °C and not for prolonged periods in direct sunlight.

Reactivity: None known.

**Possibility of Hazardous Reactions:** Not available. **Conditions to Avoid:** Extreme heat, direct sunlight, exposure to flames or sources of ignition.

**Incompatible Materials:** Strong alkalis or oxidising agents.

**Hazardous Decomposition Products:** Combustion may release hazardous fumes.

# 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY:**

Based on experimental data:

Oral LD<sub>50</sub> rat 500 mg/kg. Dermal LD<sub>50</sub> rat >2000 mg/kg.

Inhalation LC<sub>50</sub> (4h) rat > 5.410 mg/L. Skin Irritation: Causes mild skin irritation.

Eye Irritation: Causes eye irritation.

**Skin Sensitization:** May cause an allergic skin reaction. **Respiratory Sensitization:** The product is not anticipated to be toxic by inhalation.

Reproductive cell mutagenicity: Not available.

Carcinogenicity: Not available.

**Reproductive toxicity:** Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure:

Iso-butanol: May cause respiratory irritation, drowsiness or

**Specific target organ toxicity – repeated exposure:** Not available.

**Aspiration hazard:** May be harmful if swallowed and enters airways.

**Chronic Effects** (other targets e.g. developmental): Not available.

## POTENTIAL ADVERSE EFFECTS: None known.

#### 12: ECOLOGICAL INFORMATION

This product is considered a marine pollutant.

#### **ECOTOXICITY DATA:**

Fish:

(Bromoxynil octanoate)

 $LC_{50}$  (96h) Rainbow trout 0.041 mg/ $\ell$ Bluegill sunfish 0.06 mg/ $\ell$ 

(Dicamba)

LC<sub>50</sub> (96h) Rainbow trout

|                            | 07 (1 = 1 1 = 7 )         | .,,               |
|----------------------------|---------------------------|-------------------|
| (MODA)                     | Bluegill sunfish          | 135 mg/l          |
| (MCPA)                     | D. Caller Co. 1           | 50.500 'n         |
| LC <sub>50</sub> (96h)     | Rainbow trout             | 50-560 mg/l       |
|                            | Bluegil sunfish           | >150 mg/l         |
|                            | Carp                      | 317 mg/l          |
| Donhnio                    | Silverside                | 220 mg/l          |
| Daphnia:<br>(Bromoxynil o  | actanosto)                |                   |
| LC <sub>50</sub> (48h)     | octanoate)                | 0.046 mg/l        |
| (Dicamba)                  |                           | 0.040 mg/t        |
| LC <sub>50</sub> (48h)     |                           | 120.7 mg/l        |
| (MCPA)                     |                           | 120.7 1119/1      |
| LC <sub>50</sub> (48h)     |                           | >190 mg/l         |
| Algae:                     |                           | 2 100 mg/t        |
| (Bromoxynil                | octanoate)                |                   |
| ÈC <sub>50</sub> (96h)     | Scenedesmus subspicatu    | s 1 mg/ℓ          |
| EC <sub>50</sub> (120h)    | Navicula pelliculosa      | 0.043 mg/l        |
| EC <sub>50</sub> (96h)     | Selenastrum capricorn     | 0.22 mg/ℓ         |
| (Dicamba)                  | •                         | J                 |
| LC <sub>50</sub> (96h)     | Pseudokirchneriella subca | pitata >3.7 mg/l  |
| (MCPA)                     |                           |                   |
| EC <sub>50</sub>           | Selenastrum capricorn     | >392 mg/l         |
| Other aquation             |                           |                   |
| (Bromoxynil                | •                         |                   |
| LC <sub>50</sub> (14d)     | Lemna gibba               | >0.073 mg/l       |
| (Dicamba)                  |                           | 0.0 (0            |
| EC <sub>50</sub> (14d)     | Lemna gibba               | >3.8 mg/ <i>l</i> |
| (MCPA)                     | Danagua duaranum          | 221 ma/l          |
| LC <sub>50</sub><br>Birds: | Panaeus duorarum          | 231 mg/l          |
| (Bromoxynil                | nctannate)                |                   |
| LD <sub>50</sub>           | Bobwhite quail            | 170 mg/kg         |
| 2230                       | Mallard ducks             | 2350 mg/kg        |
| Sub-acute diet             |                           |                   |
| LD <sub>50</sub>           | Bobwhite quail            | 1315 ppm          |
|                            | Mallard ducks             | 2150 ppm          |
| (Dicamba)                  |                           |                   |
| LD <sub>50</sub>           | Bobwhite quail            | 216 mg/kg         |
|                            | Mallard ducks             | 1373 mg/kg        |
| Dietary LC <sub>50</sub>   |                           |                   |
| (8d)                       | Bobwhite quail            |                   |
|                            | Mallard ducks             | >10 000 mg/kg     |
| (MCPA)                     |                           |                   |
| LD <sub>50</sub>           | Bobwhite quail            | 377 mg/kg         |
| Sub-acute                  |                           |                   |
| dietary                    | Dahada a a                |                   |
| LC <sub>50</sub> (5d)      | Bobwhite quail            | . ECOO            |
| Poos:                      | Mallard ducks             | >5620 ppm         |
| Bees:                      | octanoato)                |                   |
| (Bromoxynil                | ociai ioale)              | 400 /             |

LD<sub>50</sub>(48h, contact) Honeybees

(96h, oral)

(Dicamba)

(MCPA)

LD<sub>50</sub> (contact)

(oral)

LD<sub>50</sub> (oral, contact)

>100 µg/bee

>100 µg/bee

>100 µg/bee

>200 µg/bee

>119.8 µg/bee



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Worms:

(Bromoxynil octanoate)

 $LD_{50}$  97 mg/kg soil

(Dicamba)

LC<sub>50</sub> (14d) >1000 mg/kg soil

(MCPA)

LD<sub>50</sub> (14d) Eisenia foetida 325 mg/kg dry soil

## **ENVIRONMENTAL EFFECTS:**

(Bromoxynil)

Plants & animals – Metabolism by means of hydrolysis of the ester and nitrile groups, with some debromination.

**Persistence and degradability:** In lab.: DT<sub>50</sub> <1d. Degraded by hydrolysis and debromination to less toxic substances such as hydroxybenzoic acid.

**Bio-accumulative Potential:** Not determined. (incl K<sub>ow</sub>)

Mobility in soil: Not determined.

Other adverse effects: Not determined.

(Dicamba)

Animals – In mammals, rapidly eliminated in the urine, partly as glycine conjugate. Plants – Varies with species. In wheat, major metabolite is 5-hydroxy-2-methoxy-3,6-dichlorobenzoic acid.

**Persistence and degradability:** Microbial degradation occurs, principal metabolite 3,6-dichlorosalicylic acid. Under rapid metabolism  $DT_{50}$  <14d;  $K_{oc}$  242-2930, depending on soil.

Bio-accumulative Potential: Not determined. (incl Kow)

**Mobility in soil:** Not determined.

Other adverse effects: Not determined.

#### (MCPA)

Animals – Absorbed rapidly and excreted almost exclusively in the urine. Only moderate metabolism and small amount of conjugate formation. Plants – Hydroxylated at the methyl group with formation of 2-hydroxymethyl-4-chlorophenoxyacetic acid.

**Persistence and degradability:** DT<sub>50</sub> <7d, after initial lag phase.

Bio-accumulative Potential: Not determined. (incl Kow)

Mobility in soil: Not determined.

Other adverse effects: Not determined.

#### 13: DISPOSAL CONSIDERATIONS

**Waste:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

**Container:** Do not re-use the empty container for any other purpose. Combustible containers should be disposed of in pesticide incinerators or in specified landfill sites. Triple rinse non-combustible empty containers by inverting the empty container over the spray or mixing tank

and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Containers that are not to be reused should be punctured and transported to a facility for recycling or disposal in approved landfill site. Comply with local legislation applying to waste disposal.

#### 14: TRANSPORT INFORMATION

UN Number: 2902

Road Transport ADR/IRD:

Class: 9
Packaging group: III

UN Proper Shipping Name: Pesticide, liquid, Toxic, N.O.S. (MCPA  $280g/\ell + Bromoxynil \ 100g/\ell + Dicamba \ 30g/\ell$ )

**Maritime Transport IMDG/IMO:** 

Class: 9 Packaging group: III

UN Proper Shipping Name: Pesticide, liquid, Toxic, N.O.S. (MCPA  $280g/\ell$  + Bromoxynil  $100g/\ell$  + Dicamba  $30g/\ell$ )

Marine Pollutant (Y/N): Yes Air Transport IATA/ICAO:

Class: 9 Packaging group: III

UN Proper Shipping Name: Pesticide, liquid, Toxic, N.O.S. (MCPA  $280g/\ell$  + Bromoxynil  $100g/\ell$  + Dicamba  $30g/\ell$ )

**Special/Environmental Precautions:** None known. **Transport in bulk** (according to MARPOL 73/78, Annex II and the IBC code): Not available.

## 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

OHSA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

**EU regulation:** Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

# **16: OTHER INFORMATION**

**Packaging:** Packed in 1, 5, 10, 20, 25 and 50 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.



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Additional H statements (formulants):

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H318: Causes serious eye damage. H319: Causes serious eye irritation.

H331: Toxic if inhaled. H332: Harmful if inhaled.

H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.

H412: Harmful to aquatic life with long lasting effects.

**Disclaimer:** The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

#### **END OF DOCUMENT**

**Compiled:** July 2016 **Reviewed:** March 2019

Revision no.: (2)

Next revision date: March 2024

For detailed information on revisions, contact the Registration holder.