

# OzCrop Penetrate 700 Surfactant OzCrop

Chemwatch: 5322-69 Version No: 4.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 10/12/2021 Print Date: 27/09/2022 S.GHS.AUS.EN.E

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

### **Product Identifier**

| Product name                  | zCrop Penetrate 700 Surfactant                     |  |  |
|-------------------------------|--|--|--|
| Chemical Name Not Applicable  |  |  |  |
| Synonyms                      | APVMA Code: 66581                                  |  |  |
| Proper shipping name          | CORROSIVE LIQUID, N.O.S. (contains propionic acid) |  |  |
| Chemical formula              | Not Applicable                                     |  |  |
| Other means of identification | Not Available                                      |  |  |

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

Relevant identified uses

Acidifying and penetrating surfactant. Reduces alkaline hydrolysis of Dimethoate. Assists with uptake of foliar fertilizers and assists in management of spray droplet size. Reduces brown out time for Gylphosate.

### Details of the manufacturer or supplier of the safety data sheet

| Registered company name OzCrop |  |  |  |  |
|--------------------------------|--|--|--|--|
| Address                        | Address G13/25 Solent Circuit Norwest NSW 2153 Australia |  |  |  |
| Telephone                      | +61 2 8123 0170  |  |  |  |
| Fax                            | +61 2 8123 0171  |  |  |  |
| Website                        | ite http://www.ozcrop.com.au                             |  |  |  |
| Email                          | orders@ozcrop.com.au                                     |  |  |  |

### **Emergency telephone number**

| Association / Organisation In Transport Emergency DIAL 000 |                                   | In Transport Emergency DIAL 000          |  |
|--|-----------------------------------|--|--|
|  | Emergency telephone numbers       | 1800 033 111 (24 hours - Australia wide) |  |
|  | Other emergency telephone numbers | Not Available                            |  |

### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

| Poisons Schedule   | S5  |  |  |  |  |
|--|---|--|--|--|--|
| Classification [1] Corrosive to Metals Category 1, Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1 |   |  |  |  |  |
| Legend:  | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |  |  |  |  |

### Label elements

Hazard pictogram(s)



Signal word Dang

### Hazard statement(s)

| H290 | May be corrosive to metals.              |
|------|--|
| H314 | Causes severe skin burns and eye damage. |

### Precautionary statement(s) Prevention

| P260   | Do not breathe mist/vapours/spray. |  |
|--|------------------------------------|--|
| P264 Wash all exposed external body areas thoroughly after handling. |                                    |  |

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| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |
|------|--|
| P234 | Keep only in original packaging.   |

### Precautionary statement(s) Response

| P301+P330+P331   | SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |  |  |  |
|--|---|--|--|--|
| P303+P361+P353   | P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |  |  |  |
| P305+P351+P338   | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |  |  |
| P310   | P310 Immediately call a POISON CENTER/doctor/physician/first aider.   |  |  |  |
| P363   | P363 Wash contaminated clothing before reuse.   |  |  |  |
| P390   | P390 Absorb spillage to prevent material damage.  |  |  |  |
| P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. |   |  |  |  |

### Precautionary statement(s) Storage

P405 Store locked up.

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

### **Mixtures**

| mixtures  |           |  |  |  |
|---|-----------|--|--|--|
| CAS No  | %[weight] | Name                                       |  |  |
| 79-09-4   | 30-60     | propionic acid                             |  |  |
| Not Available   |           | (350g/L)                                   |  |  |
| 8002-43-5     30-60       Not Available     10-30       7732-18-5     10-30   |           | L-alpha-phosphatidinylcholine              |  |  |
|   |           | (350g/L)                                   |  |  |
|   |           | Ingredients determined not to be hazardous |  |  |
|   |           | water                                      |  |  |
| Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L: * EU IOEL Vs available |           |  |  |  |

### **SECTION 4 First aid measures**

### Description of first aid measures

If this product comes in contact with the eyes:

- Eye Contact
- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Transport to hospital or doctor without delay.
  - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### Skin Contact

Ingestion

- If skin or hair contact occurs
- ▶ Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.
- Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- ► Transport to hospital, or doctor.
- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.
   Perform CPR if necessary.
- Transport to hospital, or doctor.
- Inhalation Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.
  - Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).
  - As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.
  - Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.

### This must definitely be left to a doctor or person authorised by him/her.

(ICSC13719)

- For advice, contact a Poisons Information Centre or a doctor at once.
- Urgent hospital treatment is likely to be needed.
- If swallowed do **NOT** induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- ▶ Transport to hospital or doctor without delay.

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

Treat symptomatically

For acute or short term repeated exposures to strong acids:

- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially,
- Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
- Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.
- Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues INGESTION:
  - Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- ▶ DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury.
- Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- Charcoal has no place in acid management.
- ▶ Some authors suggest the use of lavage within 1 hour of ingestion.

### SKIN:

- Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping.
- ▶ Deep second-degree burns may benefit from topical silver sulfadiazine.

### EYE:

- Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.
- Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.
- ▶ Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

### **SECTION 5 Firefighting measures**

### **Extinguishing media**

- ► Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

### Special hazards arising from the substrate or mixture

Fire Incompatibility ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

### Advice for firefighters

| , | Alert Fire Brigade and tell them location and nature of hazard. |
|---|---|
| • | Wear full body protective clothing with breathing apparatus.    |

- Prevent, by any means available, spillage from entering drains or water course.
- Use fire fighting procedures suitable for surrounding area.
- Do not approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire. • Equipment should be thoroughly decontaminated after use.

Fire Fighting

- ▶ Not considered to be a significant fire risk.
- Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- May emit corrosive, poisonous fumes. May emit acrid smoke.

Fire/Explosion Hazard carbon dioxide (CO2)

nitrogen oxides (NOx)

Non combustible.

phosphorus oxides (POx)

other pyrolysis products typical of burning organic material.

May emit clouds of acrid smoke

**HAZCHEM** 

### **SECTION 6 Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

|              | Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of |  |  |  |
|--------------|--|--|--|--|
|              | material.  |  |  |  |
|              | ▶ Check regularly for spills and leaks.  |  |  |  |
|              | Clean up all spills immediately.   |  |  |  |
| Minor Spills | Avoid breathing vapours and contact with skin and eyes.  |  |  |  |

- Control personal contact with the substance, by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.
- Place in a suitable, labelled container for waste disposal.

### **Major Spills**

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.

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- Prevent, by any means available, spillage from entering drains or water course.
- Consider evacuation (or protect in place).
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- ▶ Neutralise/decontaminate residue (see Section 13 for specific agent).
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### Precautions for safe handling ► DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Safe handling Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

## Store in original containers.

- Keep containers securely sealed.
- No smoking, naked lights or ignition sources. Other information
  - Store in a cool, dry, well-ventilated area.
  - Store away from incompatible materials and foodstuff containers.
  - Protect containers against physical damage and check regularly for leaks.
  - ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

### Conditions for safe storage, including any incompatibilities

- ▶ DO NOT use aluminium or galvanised containers
- Check regularly for spills and leaks
- Glass container is suitable for laboratory quantities
- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Polyliner drum.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

### For low viscosity materials

- ▶ Drums and jerricans must be of the non-removable head type. Suitable container
  - ▶ Where a can is to be used as an inner package, the can must have a screwed enclosure.

For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):

- Removable head packaging;
- ▶ Cans with friction closures and
- low pressure tubes and cartridges

may be used.

Where combination packages are used, and the inner packages are of glass, porcelain or stoneware, there must be sufficient inert cushioning material in contact with inner and outer packages unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

Not Available

### Storage incompatibility

- Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.
- Avoid storage with reducing agents.
  - Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.
- Avoid strong bases.

Not Available

### SECTION 8 Exposure controls / personal protection

### Control parameters

### Occupational Exposure Limits (OEL)

### **INGREDIENT DATA**

| Source                       | Ingredient     | Material name  | TWA               | STEL          | Peak          | Notes         |
|------------------------------|----------------|----------------|-------------------|---------------|---------------|---------------|
| Australia Exposure Standards | propionic acid | Propionic acid | 10 ppm / 30 mg/m3 | Not Available | Not Available | Not Available |

### **Emergency Limits**

propionic acid

| Ingredient     | TEEL-1        | TEEL-2 |              | TEEL-3  |
|----------------|---------------|--------|--------------|---------|
| propionic acid | 15 ppm        | 28 ppm |              | 170 ppm |
| Ingredient     | Original IDLH |        | Revised IDLH |         |

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| Ingredient                    | Original IDLH | Revised IDLH  |
|-------------------------------|---------------|---------------|
| L-alpha-phosphatidinylcholine | Not Available | Not Available |
| water                         | Not Available | Not Available |

### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

## Appropriate engineering controls

| Type of Contaminant:  | Air Speed:                      |
|---|---------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).  | 0.25-0.5 m/s<br>(50-100 f/min)  |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.)      |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)  | 1-2.5 m/s (200-500 f/min.)      |
| grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion)   | 2.5-10 m/s<br>(500-2000 f/min.) |

Within each range the appropriate value depends on:

| Lower end of the range                                     | Upper end of the range           |
|--|----------------------------------|
| 1: Room air currents minimal or favourable to capture      | 1: Disturbing room air currents  |
| 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity |
| 3: Intermittent, low production.                           | 3: High production, heavy use    |
| 4: Large hood or large air mass in motion                  | 4: Small hood-local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

### Personal protection









## Eve and face protection

Chemical goggles.
Full face shield may be required for supplementary but never for primary protection of eyes.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

### Skin protection

See Hand protection below

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber
   When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid soills entering boots.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance

and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

### Hands/feet protection

- · frequency and duration of contact,
- · chemical resistance of glove material,
- $\boldsymbol{\cdot}$  glove thickness and
- · dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- · Contaminated gloves should be replaced.

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As defined in ASTM F-739-96 in any application, gloves are rated as:

- · Excellent when breakthrough time > 480 min
- · Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

### Body protection

See Other protection below

### Other protection

- Overalls.PVC Apron.
- PVC protective suit may be required if exposure severe.
- Eyewash unit.
- Ensure there is ready access to a safety shower.

### Recommended material(s)

### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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| Material       | СРІ |
|----------------|-----|
| BUTYL          | С   |
| NATURAL RUBBER | С   |
| NEOPRENE       | С   |
| PE             | С   |
| PVA            | С   |
| VITON          | С   |

- \* CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### Respiratory protection

Type AB-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum<br>Protection Factor | Half-Face<br>Respirator | Full-Face<br>Respirator | Powered Air<br>Respirator   |
|---------------------------------------|-------------------------|-------------------------|-----------------------------|
| up to 10 x ES                         | AB-AUS P2               | -                       | AB-PAPR-AUS /<br>Class 1 P2 |
| up to 50 x ES                         | -                       | AB-AUS / Class<br>1 P2  | -                           |
| up to 100 x ES                        | -                       | AB-2 P2                 | AB-PAPR-2 P2 ^              |

### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

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### **SECTION 9 Physical and chemical properties**

### Information on basic physical and chemical properties

| · · ·  |  |   |                |
|--|--|---|----------------|
| Appearance                                   | Dark brown liquid with pungent vinegar-like odour; mixes with water. |   |                |
|  |  |   |                |
| Physical state                               | Liquid   | Relative density (Water = 1)            | 1.022          |
| Odour  | Not Available  | Partition coefficient n-octanol / water | Not Available  |
| Odour threshold                              | Not Available  | Auto-ignition temperature (°C)          | Not Applicable |
| pH (as supplied)                             | Not Available  | Decomposition temperature (°C)          | Not Available  |
| Melting point / freezing point (°C)          | Not Available  | Viscosity (cSt)                         | Not Available  |
| Initial boiling point and boiling range (°C) | ~100   | Molecular weight (g/mol)                | Not Applicable |
| Flash point (°C)                             | Not Applicable   | Taste                                   | Not Available  |
| Evaporation rate                             | Not Available  | Explosive properties                    | Not Available  |

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| Flammability              | Not Applicable     | Oxidising properties                 | Not Available |
|---------------------------|--------------------|--------------------------------------|---------------|
| Upper Explosive Limit (%) | Not Applicable     | Surface Tension (dyn/cm or mN/m)     | Not Available |
| Lower Explosive Limit (%) | Not Applicable     | Volatile Component (%vol)            | Not Available |
| Vapour pressure (kPa)     | *2.37 @20C (water) | Gas group                            | Not Available |
| Solubility in water       | Miscible           | pH as a solution (Not<br>Available%) | 3.6           |
| Vapour density (Air = 1)  | Not Available      | VOC g/L                              | Not Available |

### **SECTION 10 Stability and reactivity**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | Contact with alkaline material liberates heat Unstable in the presence of incompatible materials |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

### **SECTION 11 Toxicological information**

| Information on toxico | logical | effects |
|-----------------------|---------|---------|
|-----------------------|---------|---------|

| Inhaled      | Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness.  |
|--------------|---|
| Ingestion    | The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.  Ingestion of low-molecular organic acid solutions may produce spontaneous haemorrhaging, production of blood clots, gastrointestinal damage and narrowing of the oesophagus and stomach entry.  Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Immediate pain and difficulties in swallowing and speaking may also be evident.  Accidental ingestion of the material may be damaging to the health of the individual. |
| Skin Contact | The material can produce chemical burns following direct contact with the skin.  Open cuts, abraded or irritated skin should not be exposed to this material  Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue.  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.                 |
| Еуе          | The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating.  If applied to the eyes, this material causes severe eye damage.  Irritation of the eyes may produce a heavy secretion of tears (lachrymation).  Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns. Mild burns of the epithelia generally recover rapidly and completely.  Solutions of low-molecular weight organic acids cause pain and injury to the eyes.  |
| Chronic      | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs.   |

| OzCrop Penetrate 700<br>Surfactant | TOXICITY   | IRRITATION  |
|------------------------------------|--|---|
|                                    | Not Available  | Not Available   |
|                                    | TOXICITY   | IRRITATION  |
|                                    | Dermal (rabbit) LD50: 500 mg/kg <sup>[2]</sup>   | Eye (rabbit): 990 mg - SEVERE                             |
|                                    | Inhalation(Rat) LC50; >4.9 mg/l4h <sup>[2]</sup>   | Eye: adverse effect observed (irritating) <sup>[1]</sup>  |
| propionic acid                     | Oral (Rat) LD50; 2600 mg/kg <sup>[2]</sup>   | Skin (rabbit):495 mg(open)-SEVERE                         |
|                                    |  | Skin: adverse effect observed (corrosive) <sup>[1]</sup>  |
|                                    |  | Skin: adverse effect observed (irritating) <sup>[1]</sup> |
|                                    | TOXICITY   | IRRITATION  |
| L-alpha-phosphatidinylcholine      | Not Available  | Not Available   |
| water                              | TOXICITY   | IRRITATION  |
|                                    | Oral (Rat) LD50; >90000 mg/kg <sup>[2]</sup> Not Available   |   |
| Legend:                            | Nalue obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |   |

### PROPIONIC ACID

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent

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asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.

## L-ALPHA-PHOSPHATIDINYLCHOLINE & WATER

No significant acute toxicological data identified in literature search.

| Acute Toxicity                    | × | Carcinogenicity          | × |
|-----------------------------------|---|--------------------------|---|
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | × |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | × |
| Respiratory or Skin sensitisation | × | STOT - Repeated Exposure | × |
| Mutagenicity                      | × | Aspiration Hazard        | X |

Legend:

💢 – Data either not available or does not fill the criteria for classification

🌶 – Data available to make classification

### **SECTION 12 Ecological information**

|                                    | Endpoint         | Test Duration (hr) | Species  | Valu        | ie    | Source           |
|------------------------------------|------------------|--------------------|--|-------------|-------|------------------|
| OzCrop Penetrate 700<br>Surfactant | Not<br>Available | Not Available      | Not Available  | Not<br>Ava  | lable | Not<br>Available |
|                                    | Endpoint         | Test Duration (hr) | Species  | Value       |       | Source           |
|                                    | EC20(ECx)        | 96h                | Algae or other aquatic plants  | 12mg/l      |       | 1                |
|                                    | EC50             | 72h                | Algae or other aquatic plants  | 45.8mg/l    |       | 1                |
| propionic acid                     | EC50             | 48h                | Crustacea  | 20.79-24.35 | 4mg/L | 4                |
|                                    | LC50             | 96h                | Fish   | 50.49mg/L   |       | 4                |
|                                    | EC50             | 96h                | Algae or other aquatic plants  | 43mg/l      |       | 1                |
|                                    | Endpoint         | Test Duration (hr) | Species  | Valu        | ie    | Source           |
| L-alpha-phosphatidinylcholine      | Not<br>Available | Not Available      | Not Available  | Not<br>Ava  | lable | Not<br>Available |
|                                    | Endpoint         | Test Duration (hr) | Species  | Valu        | ie    | Source           |
| water                              | Not<br>Available | Not Available      | Not Available  | Not<br>Ava  | lable | Not<br>Available |
| Legend:                            | Ecotox databa    | ,                  | CHA Registered Substances - Ecotoxicological Ir<br>C Aquatic Hazard Assessment Data 6. NITE (Jap | ,           | ,     |                  |

May cause long-term adverse effects in the aquatic environment.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

### Persistence and degradability

| Ingredient     | Persistence: Water/Soil | Persistence: Air |
|----------------|-------------------------|------------------|
| propionic acid | LOW                     | LOW              |
| water          | LOW                     | LOW              |

### **Bioaccumulative potential**

| Ingredient     | Bioaccumulation     |
|----------------|---------------------|
| propionic acid | LOW (LogKOW = 0.33) |

### Mobility in soil

| Ingredient     | Mobility           |
|----------------|--------------------|
| propionic acid | HIGH (KOC = 1.201) |

### **SECTION 13 Disposal considerations**

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- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
  - In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority.
  - Recycle wherever possible.
  - Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
  - Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
  - Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.

### **SECTION 14 Transport information**

Product / Packaging disposal

### **Labels Required**



| Marine Pollutant | NO |
|------------------|----|
| HAZCHEM          | 2X |

### Land transport (ADG)

| UN number                    | 1760   |  |  |
|------------------------------|--|--|--|
| UN proper shipping name      | CORROSIVE LIQUID, N.O.S. (contains propionic acid) |  |  |
| Transport hazard class(es)   | Class 8 Subrisk Not Applicable                     |  |  |
| Packing group                |  |  |  |
| Environmental hazard         | Not Applicable                                     |  |  |
| Special precautions for user | Special provisions 223 274 Limited quantity 5 L    |  |  |

### Air transport (ICAO-IATA / DGR)

| UN number                    | 1760  |  |   |  |
|------------------------------|---|--|---|--|
| UN proper shipping name      | Corrosive liquid, n.o.s. *  | Corrosive liquid, n.o.s. * (contains propionic acid) |   |  |
| Transport hazard class(es)   | ICAO/IATA Class ICAO / IATA Subrisk ERG Code  | 8 Not Applicable 8L                                  |   |  |
| Packing group                | III   |  |   |  |
| Environmental hazard         | Not Applicable  |  |   |  |
| Special precautions for user | Special provisions  Cargo Only Packing Instructions  Cargo Only Maximum Qty / Pack  Passenger and Cargo Packing Instructions  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Limited Quantity Packing Instructions  Passenger and Cargo Limited Maximum Qty / Pack |  | A3 A803<br>856<br>60 L<br>852<br>5 L<br>Y841<br>1 L |  |

### Sea transport (IMDG-Code / GGVSee)

| UN number                  | 1760   |  |  |
|----------------------------|--|--|--|
| UN proper shipping name    | CORROSIVE LIQUID, N.O.S. (contains propionic acid) |  |  |
| Transport hazard class(es) | IMDG Class 8 IMDG Subrisk Not Applicable           |  |  |
| Packing group              | III  |  |  |
| Environmental hazard       | Not Applicable                                     |  |  |

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Special precautions for user

EMS Number F-A, S-B
Special provisions 223 274
Limited Quantities 5 L

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                  | Group         |
|-------------------------------|---------------|
| propionic acid                | Not Available |
| L-alpha-phosphatidinylcholine | Not Available |
| water                         | Not Available |

### Transport in bulk in accordance with the ICG Code

| Product name                  | Ship Type     |
|-------------------------------|---------------|
| propionic acid                | Not Available |
| L-alpha-phosphatidinylcholine | Not Available |
| water                         | Not Available |

### **SECTION 15 Regulatory information**

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

### propionic acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  $\boldsymbol{6}$ 

Australian Inventory of Industrial Chemicals (AIIC)

L-alpha-phosphatidinylcholine is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

### **National Inventory Status**

| National Inventory                                 | Status   |
|--|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes  |
| Canada - DSL                                       | Yes  |
| Canada - NDSL                                      | No (propionic acid; L-alpha-phosphatidinylcholine; water)  |
| China - IECSC                                      | Yes  |
| Europe - EINEC / ELINCS / NLP                      | Yes  |
| Japan - ENCS                                       | No (L-alpha-phosphatidinylcholine)   |
| Korea - KECI                                       | Yes  |
| New Zealand - NZIoC                                | Yes  |
| Philippines - PICCS                                | Yes  |
| USA - TSCA   | Yes  |
| Taiwan - TCSI                                      | Yes  |
| Mexico - INSQ                                      | Yes  |
| Vietnam - NCI                                      | Yes  |
| Russia - FBEPH                                     | Yes  |
| Legend:  | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

### **SECTION 16 Other information**

| Revision Date | 10/12/2021 |
|---------------|------------|
| Initial Date  | 24/09/2018 |

### **SDS Version Summary**

| Version | Date of Update | Sections Updated   |
|---------|----------------|--|
| 3.1     | 01/11/2019     | One-off system update. NOTE: This may or may not change the GHS classification |
| 4.1     | 10/12/2021     | Classification change due to full database hazard calculation/update.          |

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

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The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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TEL (+61 3) 9572 4700.