

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** Petrichor

**Formulation Type:** Water dispersible granule

**Filed of Use:** Herbicide

**Supplier:** YC Agro Limited

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### 2. HAZARD IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Acute aquatic toxicity                      Category 1-(H400)

Hazardous to the Aquatic                  Category 1-(H410)

Environment- Chronic Hazard

#### 2.2 Label elements

**Labeling according to Regulation (EC) No 1272/2008 [CLP]**

**Pictograms**



**Signal word**

Warning

**Hazard Statement (s)**

H410    Very toxic to aquatic life with long lasting effects.

**Hazard Statement(s) EU**

EUH401    To avoid risks to human health and the environment, comply with the instructions for use.

EUH208    Contains disodium maleate. May produce an allergic reaction.

**Precautionary statement(s)**

P102    Keep out of reach of children.

P501    Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

**Additional phrases for PPP**

SP1- Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via

drains from farmyards and roads)

### 3. COMPOSITION INFORMATION

#### 3.1 Substances

Not applicable. The product is not a substance.

#### 3.2 Mixtures

Hazardous ingredients.

No	Substance name	CAS/EC/Index/REACH no	Classification (EC)1272/2008 (CLP)	Concentration(%)
1	Metribuzin	21087-64-9 244-209-7 - -	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	66 - 74
2	Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	- 939-368-0 - 01-2119969954-16-0000	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) STOT SE 3 (H335)	1-3
3	Citric acid monohydrate	5949-29-1 - - -	Eye Irrit. 2 (H319)	<2
4	Disodium maleate	371-47-1 206-738-1 - -	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	<2

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General advice

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection.

##### If inhaled

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

##### In case of skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

##### In case of eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue

flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, Call a physician.

**If swallowed**

Rinse mouth. Drink plenty of water, If symptoms persist, Call a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

**5. FIRE FIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

No information available.

**5.2 Special hazards arising from the substance or mixture**

NO specific hazard know..

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

In the event of fire and/or explosion do not breathe fumes.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Use personal protective equipment as required.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2 Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

**6.3 Methods and materials for containment and cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13. Information regarding personal protective measures, see Section 8.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

**Advice on safe handling**

Avoid generation of dust. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

**General protective and hygiene measures**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed and dry in a dry, well-ventilated place. Keep out of the reach of children.

## 7.3 Specific end use(s)

### Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Metribuizn			TWA: 5mg/m <sup>3</sup>	TWA: 5mg/m <sup>3</sup>	
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Metribuizn		TWA: 5mg/m <sup>3</sup>			TWA: 5mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Metribuizn	STEL 10mg/m <sup>3</sup> TWA: 5mg/m <sup>3</sup>				TWA: 5mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

##### Eye/face protection

Tight sealing safety goggles.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

##### Hand protection

Gloves made of plastic or rubber.

##### Body Protection

Suitable protective clothing

##### General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

**Environmental exposure controls.** Do not allow into any sewer, on the ground or into any body of water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Beige solid
<b>Odour</b>	characteristic
<b>Odour threshold</b>	No data available

<b>pH</b>	8.7-9.7
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	Not Applicable
<b>Flammability (solid,gas)</b>	Not highly flammable
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	Not Applicable
<b>Bulk density</b>	0.48-0.58 g/ml
<b>Solubility (ies)</b>	No data available.
<b>Partition coefficient: n-octanol/water</b>	No data available.
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

No information available

### 10.6 Hazardous decomposition products

None under normal use conditions.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - >2000 mg/kg

Dermal LD50 – rat->2000 mg/kg

Inhalation LC 50 – rat- >4.8mg/l/4h

#### Skin corrosion/irritation

Non-irritating to the skin-rabbit

#### Serious eye damage/irritation

Not irritating to eyes-rabbit

**Respiratory or skin sensitization**

Not a skin sensitizer-Guinea pig

**Germ cell mutagenicity**

Not classified (Metribuzin)

**Carcinogenicity**

Not Carcinogenic (Metribuzin)

**Reproductive toxicity**

Not toxic for the reproductive system (Metribuzin)

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**STOT – single exposure**

No data available

**Additional information**

No data available

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Acute toxicity

Fish 96-hour LC50 mg/l: > 100

Crustacea 48-hour EC50 mg/l: >100

Algae 72-hour EC50 mg/l: 0.0867

Other plants EC50 mg/l: No data available

Terrestrial Toxicity

Birds Oral LD50 mg/kg: 164 (Metribuzin)

Bees Oral LD50 ug/bee: 166 (Metribuzin)

**12.2 Persistence and degradability**

Abiotic Degradation

Water DT50 days: 31.1-52.6 (Metribuzin)

Soil DT50 days: 5.3-17.3 (Metribuzin)

Biodegradation: No data available.

**12.3 Bioaccumulative potential**

Partition Coefficient

(n-octanol/water) Log Pow: 1.7 (Metribuzin)

Bioconcentration factor (BCF): Not available

#### 12.4 Mobility in soil

Adsorption/Desorption: 3.14-81.5 (Metribuzin)

#### 12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6 Other adverse effects

No information available

### 13. DISPOSAL CONSIDERATION

#### 13.1 Waste treatment methods

##### Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

##### Contaminate packaging

Improper disposal or reuse of this container may be dangerous and illegal.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

### 14. TRANSPORT INFORMATION

#### 14.1 Transport IMDG/IMO

UN number: 3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin)

Hazard Class: 9

Packing group: III

Marine pollutant: Yes

#### 14.2 Transport RID/ADR

UN number: 3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin)

Hazard Class: 9

Packing group: III

Environmental hazard: Yes

#### 14.3 Transport ICAO/IATA

UN number: 3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin)

Hazard Class: 9

Packing group: III

Environmental hazard: Yes

**15. REGULATORY INFORMATION**

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

**15.2 Chemical safety assessment**

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

**16. OTHER INFORMATION**

**Disclaimer:**

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