



## Material Safety Data Sheet

According to Regulation (EC) No. 1907/2006

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

**Product Name:** THALIA (Fluroxypyr 200 g/L)

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

Crop protection product for professional use. Agriculture.

Herbicide

#### 1.3 Details of the manufacturer of the safety data sheet

Manufacturer: YC Agro Limited

Address: Mynshull House, 78 Churchgate, Stockport, Cheshire, England SK1 1YJ, UK

Tel No.: +44 7548 954737

E-mail: director@ycagro.com, ycagro@yanchengchem.com

#### 1.4 Emergency telephone number

For further advice for medical professionals:

The National Poisons Information Service: +44 7548 954737

### 2. HAZARD IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

FLAMMABLE LIQUIDS - Category 3 - H226

Aspiration toxicity - Category 1 - H304

Skin corrosion - Category 2 – H315

Skin sensitization - Category 1 - H317

Serious eye damage/eye irritation - Category 2 - H319

Specific target organ toxicity (single exposure) - Category 3 - H335

Specific target organ toxicity (single exposure) - Category 3 - H336

Acute aquatic toxicity - Category 1 - H400

Long-term (chronic) aquatic hazard - Category 1 - H410

#### 2.2 Label elements

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

Hazard label for supply/use required.

**Pictograms**



**Signal word**

Warning

**Hazard Statement (s)**

H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H410	Very toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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	Immediately call a POISON CENTER/doctor.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P501	Dispose of contents/container to a licensed hazardous waste disposal



contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

### 3. COMPOSITION INFORMATION

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

##### Chemical nature

Emulsifiable concentrate (EC)

Fluroxypyrr 200 g/L

##### Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

No	Substance name	CAS/EC/Index/REACH no	Classification (EC)1272/2008 (CLP)	Concentration(%)
1	Hydrocarbons, C10, aromatics, <1% naphthalene	- 918-811-1 - 01-2119463583-34	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066 STOT SE 3; H336	>=50,00 -< 70,00
2	Fluroxypyrr-meptyl	81406-37-3 279-752-9 - -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>=25,00 -< 50,00
3	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salt	68953-96-8 273-234-6 - 01-2119964467-24	Acute Tox. 4 (Dermal), H312; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 2, H411	<2.50

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General advice

No special measures necessary. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

##### If inhaled

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.



#### **In case of skin contact**

When in contact with the skin, clean with soap and water.

#### **In case of eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### **If swallowed**

Call a doctor immediately and show label or packaging. Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

### **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**

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet.

#### **Unsuitable extinguishing media**

High power water jet.

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

Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbon.

### **5.3 Advice for firefighters**

#### **Special protective equipment for firefighters:**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

## **6. ACCIDENTAL RELEASE MEASURES**

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

#### **For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

#### **For emergency responders**

No data available. Personal protective equipment (PPE) – see Section 8.

### **6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not uncontrolled discharge into the subsoil/soil.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. When picked up, treat material as prescribed heading “Disposal considerations”

### **6.4 Reference to other sections**



For disposal see section 13. Information regarding personal protective measures, see Section 8. Information regarding safe handling, see Section 7.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Advice on safe handling

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### General hygiene considerations

Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

#### Advice on protection against fire and explosion

Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Take precautionary measures against static charges. Use explosion proof electric equipment.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

#### Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

#### Incompatible products

Do not store together with foodstuffs.

### 7.3 Specific end use(s)

Always read the label and product information before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

#### Engineering measures

No data available.

#### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.



### **Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Other

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345).

### **Eye protection**

Safety glasses (EN 166)

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Liquid
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	56 °C
<b>Evaporation rate</b>	No data available
<b>Flammability (solid,gas)</b>	No data available
<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>	No data available
<b>Density</b>	0.971 g/ml at 20 °C
<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>	
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available

## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

This product is stable under normal storage and handling conditions.

### **10.2 Chemical stability**

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EORI: GB405842603000 | E-mail: director@ycagro.com business@ycagro.com | Phone: +44 7548 954737 | URL: <http://www.ycagro.com>



Stable under recommended storage and handling conditions.

#### **10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

#### **10.4 Conditions to avoid**

None, if handled according to intended use.

#### **10.5 Incompatible materials**

Based; Oxidizing agents; Acids.

#### **10.6 Hazardous decomposition products**

Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.

### **11. TOXICOLOGICAL INFORMATION**

#### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Acute toxicity**

LD50 Oral - rat - >2000 mg/kg

##### **Acute dermal toxicity (result of ATE calculation for the mixture)**

The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.3, Part 3 of Annex I is outside the values that imply a classification/labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

##### **Acute inhalation toxicity**

No data available

##### **Skin corrosion/irritation**

Irritant.

##### **Serious eye damage/irritation**

Irritant.

##### **Respiratory or skin sensitization**

Sensitizing.

##### **Germ cell mutagenicity**

No data available

##### **Carcinogenicity**

No data available.

##### **Reproductive toxicity**

No data available.

##### **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**



May cause drowsiness or dizziness.

#### **Additional information**

No data available

### **12. ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

Toxicity to fish (acute): LC50 (96h) at 8,5 mg/l

Toxicity to fish (chronic): No data available

Toxicity to Daphnia (acute): EC50 (48h) 6,2 mg/l

Toxicity to algae (acute): ErC50 (72h) > 40 mg/l

Toxicity to algae (chronic): No data available

#### **12.2 Persistence and degradability**

No data available

#### **12.3 Bioaccumulative potential**

No data available

#### **12.4 Mobility in soil**

Fluroxypyrr-meptyl is immobile in soil, fluroxypyrr acid is highly to very mobile

#### **12.5 Other adverse effects**

Do not discharge product unmonitored into the environment

### **13. DISPOSAL CONSIDERATION**

#### **13.1 Waste treatment methods**

##### **Product:**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

##### **Contaminated packaging:**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

### **14. TRANSPORT INFORMATION**

#### **ADR/RID/ADN**

14.1 UN number UN 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S.

14.3 Transport hazard class(es) 3



14.4 Packaging Group	III
14.5 Environm. Hazardous Mark	YES
Tunnel Code	-

#### **IMDG**

14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3 Transport hazard class(es)	3
14.4 Packaging Group	III
14.5 Marine pollutant	YES

#### **IATA**

14.1 UN number	UN 1993
14.2 Proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3 Transport hazard class(es)	3
14.4 Packaging Group	III
14.5 Environmental. Hazardous Mark	YES

### **15. REGULATORY INFORMATION**

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

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorization as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### **REACH candidate list of substances of very high concern (SVHC) for authorization**

According to the data available and/or specifications supplied by preliminary suppliers, this product does not contain any substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: REGISTRATION ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category: E1, P5c

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.



#### **Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

#### **15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

### **16. OTHER INFORMATION**

#### **Disclaimer:**

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The manufacture provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The manufacture makes no representations or express or implied, including without limitation any warranties of merchantability fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, the manufacture will not be responsible for damages resulting from use of or reliance upon this information.

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