

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: THALIA

Formulation Type: Emulsifiable concentrate

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

Aspiration hazard, hazard category 1

Flammable liquid, hazard category 3

Hazardous to the aquatic environment - Acute 1

Serious eye damage, hazard category 1

Skin irritation, hazard category 2

Skin sensitisation, hazard category 1B

Specific Target Organ Toxicity SE 3

Classification information

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP.

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4, and 5 of Annex I to CLP.

2.2 Label elements

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

Pictograms



GHS02



GHS05



GHS07



GHS08



GHS09

Signal word

Danger

Hazardous components to be indicated on label:

Hydrocarbons, C10, aromatics, <1% naphthalene

Hazard Statement (s)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
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Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing 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.
P303+P361+P353	IF ON SKIN(or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
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.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.
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. 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	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	Fluroxypyr-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

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 protective and hygiene measures

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 rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Do not store together with foodstuffs.

7.3 Specific end use(s)

Industry solution

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

Appropriate engineering controls

No data available.

Personal protective equipment

Eye/face protection

Safety glasses (EN 166).

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)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Odour	characteristic
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	56 °C
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	0.971g/ml at 20 °C
Solubility (ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

This product is stable under normal storage and handling conditions.

10.2 Chemical stability

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 toxicological effects

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

Fluroxypyr-meptyl is immobile in soil, fluroxypyr 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.

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

14.1 Transport ADR/RID/ADN

Class: 3

Classification code: F1

Packing group: III

Hazard identification no.: 30

UN number: UN1993

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

Tunnel restriction code: D/E

Label: 3

Environmentally hazardous substance mark: Symbol “fish and tree”

14.2 Transport IMDG

Class: 3

Packing group: III

UN number: UN1993

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

EmS: F-E, S-E

Label: 3

Marine pollutant mark: Symbol “fish and tree”

14.3 Transport ICAO-TI/IATA

Class: 3

Packing group: III

UN number: UN1993

Proper shipping name: Flammable liquid, n.o.s.

Label: 3

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)

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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 has not been carried out for this mixture.

16. OTHER INFORMATION

Disclaimer:

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.
