

UNIVERSAL KLEPTON 240 EW

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KLEPTON 240 EW
Other identifier: Tau-fluvalinate 240 EW
Recommended use: Insecticide
Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
 PO Box 801,
 Kempton Park, 1620, South Africa

Telephone: (011) 396 2233

Fax: (011) 396 4666

Website: www.villacrop.co.za

Emergency telephone numbers:

24 Hr Transport / Spill emergency no:

Bateleur: +27 86 199 9071
 (Client: Villa Crop Protection)

Poisoning:

Griffon Poison Information Centre +27 82 446 8946
 Western Cape Poisons +27 861 555 777
 Tygerberg Hospital +27 21 931 6129

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Oral	Acute Tox. 4	H302
Dermal	Acute Tox. 5 Skin irrit. 2	H313 H315
Inhalation	Acute Tox. 4 STOT SE 3	H332 H336
Eye	Eye Dam. 1	H318
Reproductive Toxicity	Repr. 2	H361
Specific Target Organ Toxicity Repeated exposure	STOT RE 2	H373
Environment		
Aquatic acute	Aquatic acute 1	H400
Aquatic chronic	Aquatic chronic 1	H410

The most important adverse effects:

Physicochemical effects: None known.

Human health effects: Causes serious eye damage.

Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Label elements:



Signal word: Danger.

Hazard statements:

H302: Harmful if swallowed.
 H313: May be harmful in contact with skin.
 H315: Causes skin irritation.
 H318: Causes serious eye damage.
 H332: Harmful if inhaled.
 H336: May cause drowsiness or dizziness.
 H361: Suspected of damaging fertility or the unborn child.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.
 P261: Avoid breathing mist, vapours and spray.
 P264: Wash hands and face thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release into the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P302/352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308/313: If exposed or concerned: Get medical attention.
 P310: Immediately call a POISON CENTRE.
 P312 – Call a poison centre if you feel unwell.
 P332/313: If skin irritation occurs: get medical advice.
 P362/364: Take off contaminated clothing and wash it before reuse.
 P391: Collect spillage.
 P403/233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.
 P501: Dispose of contents/container to suitable landfill in accordance with local regulations.

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Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 4.

Classification according to WHO: Category II.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Tau-fluvalinate	102851-06-9	24 %	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Calcium Dodecylbenzene Sulfonate	26264-06-2	< 10 %	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 4 (H413)
Toluene	108-88-3	< 20 %	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Repr. 2 (H361) STOT RE 2 (H373)

4. FIRST AID MEASURES

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

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists. Treat symptomatically and supportively.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and

thoroughly with water and non-abrasive soap. If irritation persists obtain medical attention.

Eyes: Immediately flush eyes with clean water for at least 15-20 minutes. Lift eyelid (s) to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

Ingestion: Seek medical attention or call a poison control centre for treatment advice if you feel unwell. Do NOT induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water. Avoid aspiration as product contains a solvent.

Anticipated acute effects: None known.

Anticipated delayed effects: None known.

Most important symptoms/effects: None known.

Advice to physician: There is no specific antidote available. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, appropriate foam, carbon dioxide, or dry chemical powder.

Unsuitable Extinguishing Media: High volume water jet.

Specific hazards: Irritating or hazardous gases may be generated by thermal decomposition or combustion.

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

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Do not breathe in fumes. Ventilate area of spill or leak, especially in contained areas. Avoid contact with eyes and skin.

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

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

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water as the product is classified to be very toxic to aquatic organisms

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and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into water courses should be immediately reported to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by diking area with sand, earth, vermiculite or clay.

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

7. HANDLING AND STORAGE

Handling:

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

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

Storage:

Conditions for safe storage: Keep out of reach of unauthorised persons, children and animals. Store, under lock and key, in its original labelled container in an isolated, dry, cool and well-ventilated area. Avoid excess heat. Avoid cross contamination with other pesticides and fertilisers. Local regulations should be complied with.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Toluene	10 ppm	8 hr TWA	OSHA PEL

Engineering Controls:

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

Personal Protective Equipment:

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

Hand Protection: The employee must wear appropriate chemically resistant gloves e.g. nitrile rubber gloves, to prevent contact with this mixture.

Eye Protection: Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.

Skin and Body Protection: Employee must wear appropriate protective clothing and equipment to prevent repeated or prolonged skin contact with this substance.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to yellowish liquid.

Odour: Weak.

pH (1% aqueous dilution): 5.0 – 6.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: > 95°C.

Flammability: Not flammable.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density/Relative density: 1.08 - 1.10 g/cm³

Solubility: Not available.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: 455°C.

Decomposition temperature: Not available.

Viscosity: Not available.

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10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

Reactivity: None known.

Possibility of Hazardous Reactions: None Known.

Conditions to Avoid: Avoid extreme heat or exposure to flames.

Incompatible Materials: None known.

Hazardous Decomposition Products: Combustion or thermal decomposition will evolve toxic and irritant vapours for example, Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen chloride gas & Hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS

Oral LD₅₀ (24 h) rat 818,5 mg/kg.

Dermal LD₅₀ (24 h) > 7300 rabbit mg/kg.

Inhalation LC₅₀ (4 h) rat > 1,5 mg/l.

Skin Irritation/Corrosion: Causes skin irritation.

Eye Damage/Irritation: Causes serious eye damage.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Reproductive cell mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity – single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure: May cause damage to organs, through prolonged or repeated exposure.

Aspiration hazard: Not available.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Harmful if inhaled. May cause headache, drowsiness or dizziness.

Skin contact: Not available.

Eye contact: Avoid contact with eyes. Cause serious eye damage.

Ingestion: Harmful by ingestion. No significant adverse effects are expected to develop when used as recommended.

Other: Not available.

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life with long lasting effects.

ECOTOXICITY DATA:

Fish:

LC ₅₀ (96 h):	Bluegill sunfish:	0.0062 mg/l.
	Rainbow trout:	0.0027 mg/l.
	Carp:	0.0048 mg/l.

Daphnia:

LC ₅₀ (48 h)		0.001 mg/l.
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Algae:

LC ₅₀	<i>Scenedesmus subspicatus</i>	> 2.2 mg/l.
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Birds:

LD ₅₀	Bobwhite quail	> 2510 mg/kg.
Dietary LC ₅₀ (8 d)	Bobwhite quail and Mallard ducks	> 5620 mg/kg.

Bees:

LD ₅₀ (contact) (24 h)		6.7 µg/bee.
LD ₅₀ (oral) (24 h)		163 µg/bee.

Worms:

LC ₅₀ (14 d)		> 1000 ppm.
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Plants:

The parent compound itself accounts for >90% of the residue following treatment with **Tau-fluvalinate**. Minor residues include decarboxyfluvalinate, 'anilino acid', haloaniline, 3-PBA and 4'-hydroxy-3-PBA. DT₅₀ 2-6 w.

ENVIRONMENTAL EFFECTS:

Persistence and degradability: In soil under aerobic conditions (lab.), DT₅₀ 12-92 d. Primary metabolites include the corresponding anilino acids and the parent aniline. Koc (adsorption) > 110 000, (desorption) > 39 000.

Bio-accumulative Potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Waste should only be handled by licensed facilities.

Container: Emptied containers retain vapour and product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the

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prescribed manner. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN NUMBER: 3082
Road Transport ADR/RID:
 Class: 9
 Packaging group: III
 Shipping name: Environmentally Hazardous
 Substance, Liquid, N.O.S.
 (Tau-fluvalinate 240 EW)

Maritime Transport IMDG/IMO:
 Class: 9
 Packing group: III
 Shipping name: Environmentally Hazardous
 Substance, Liquid, N.O.S.
 (Tau-fluvalinate 240 EW)

Marine Pollutant: Yes

Air Transport IATA/ICAO:
 Class: 9
 Packaging group: III
 Shipping name: Environmentally Hazardous
 Substance, Liquid, N.O.S.
 (Tau-fluvalinate 240 EW)

Special/Environmental Precautions: None known.

Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation for the mixture:
 OSHA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

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

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 1, 5, 10, 15, 20, 25 & 50 litres plastic containers, labelled according to South African regulations and guidelines.

Additional H-statement (s) (formulants)

H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H413: May cause long lasting harmful effects to aquatic life.

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

END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.