

EPTC PLUS 720 EC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: EPTC PLUS 720 EC
Other identifier: EPTC + Dichlormid 720 EC
Recommended use: Herbicide
Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
P.O. 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:
(Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)
Griffon Poison Information Centre +27 82 446 8946
(Client: Villa Crop Protection)
Poisoning Emergency telephone numbers:
Griffon Poison Information Centre +27 82 446 8946
Poisons Information Centre +27 861 555 777

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statement
Health		
Oral	Acute Tox. 5	H303
Dermal	Acute Tox. 5	H313
Skin Irritation	Skin Irrit. 2	H315
Eye Damage	Eye Dam. 1	H318
Inhalation	Acute Tox. 5	H333
Environment		
Aquatic Chronic	Aquatic Chronic 3	H412

The most important adverse effects:

Physiochemical effects:

None known.

Human health effects:

Causes skin irritation (Skin Irrit. 2).

Causes serious eye damage (Eye Dam. 1).

Label elements:



Signal word: Danger.

Hazard statements:

H303: May be harmful if swallowed.

H313: May be harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H333: May be harmful if inhaled.

H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P264: Wash hands and face thoroughly after handling.

P264+P265: Wash hands thoroughly after handling. Do not touch eyes.

P273: Avoid release to the environment.

P280: Wear impervious rubber gloves and boots, protective clothing, and chemical safety goggles.

P301+P317: IF SWALLOWED: Get medical help.

P302+P317: IF ON SKIN: Get medical help.

P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.

P304+P317: IF INHALED: Get medical help.

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P317: If skin irritation occurs: get medical help.

P362+P364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of content/container to suitable landfill in accordance with local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture.

Chemical name	CAS	Conc. (m/v%)	Classification EC 1272/2008
EPTC Technical 96%	759-94-4	72 %	Acute Tox. 4 (H302)
Dichlormid 95%	37764-25-3	<10 %	Skin Irrit. 2 (H315)
Emulsogen IT	68953-96-8, 78-83-1	<10 %	Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335)

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			STOT SE 3 (H336)
Solvent 150	64742- 94-5	<10 %	Asp. Tox. 1 (H304)

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.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if you feel unwell after inhalation.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

Eyes: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention.

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting due to the solvent. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water. If vomiting occurs, keep head below hips to prevent aspiration.

Establish and maintain airway. Treat respiratory difficulty with artificial respiration and oxygen. Apply mouth-to-nose respiration. Qualified medical personnel should administer oxygen.

Advice to physician: No specific antidote is available if the product is ingested. This product contains material that may cause severe pneumonitis if aspirated. If ingested, perform gastric lavage with the aid of cuffed endotracheal tube using isotonic saline or 5 % sodium bicarbonate follow with activated charcoal.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards: Decomposes in fire and generates irritating and toxic gases.

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. Remain upwind of fire. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to

contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. This product is harmful to aquatic life with long lasting effects. Avoid pollution of waterways by run-off from the site.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or vapours. Ventilate area of spill or leak, especially in contained areas.

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. This product is harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water / Environmental Affairs.

Methods and Materials for Containment: Contain spilt product by diking area with sand or earth.

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 spilt material back in original container. Do not re-use spilt material. Collect washings and add to the drums already collected. Do not flush spilt 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: Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers 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,

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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.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children, and animals. Store in its original, labelled container, tightly closed in an isolated, dry, cool and well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. Not to be stored next to foodstuffs, feed, and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Fluorinated plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

No occupational exposure limits have been determined for the significant ingredients in this product.

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 OELs 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: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved, air-purifying respirator with cartridges / canisters approved for organic vapours.

Hand Protection: The use of chemically protective (impervious) gloves e.g., PVC is recommended to prevent against skin contact.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employees must wear appropriate protective (impervious) clothing e.g., coveralls, (rubber) boots, hat, and equipment to prevent repeated or prolonged skin contact with this product. Do not wear leather clothing.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this product, 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: Homogenous, slight yellow, amber liquid.

Odour: Organosulphurous odour.

Odour threshold: Not available.

pH (1% aqueous dilution): 5.0 to 8.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: >97°C (Setaflash closed cup).

Flammability: Not available.

Upper / lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density / Relative density: 0.9601 ± 0.01 g/cm³ at 20°C.

Solubility: Not available.

n-octanol / water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

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: Extreme heat or exposure to flames.

Incompatible materials: Incompatible with strong acid, alkaline and oxidising agents.

Hazardous decomposition products: Decomposes in fire and generate toxic products which may include hydrocarbons, oxides of carbon, sulphur and nitrogen.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD₅₀ (24h) >2000 mg/kg (rats).

Dermal LD₅₀ (24h) 2000 mg/kg (rats/rabbits).

Inhalation LC₅₀ (4h) >4.9 mg/l (rats).

Skin Irritation / Corrosion: Causes skin irritation.

Eye Damage / Irritation: Causes serious eye damage.

Skin Sensitization: Not classified.

Respiratory Sensitization: Not classified.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

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Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not classified.

Chronic Effects: None known.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Maybe harmful if inhaled, do not breathe in spray mist or vapours.

Ingestion: Maybe harmful if swallowed, symptoms may include salivation, sweating, headache, nausea, muscle twitching, tremors, in-coordination, abdominal cramps, diarrhoea, and chest discomfort.

Eyes: Due to inert, this product can cause serious eye damage or blurred vision.

12. ECOLOGICAL INFORMATION

This product is expected to be harmful to aquatic organisms.

ECOTOXICITY DATA:

Active ingredients: EPTC+Dichlormid.

Fish:

EPTC:

LC ₅₀ (96 h)	Rainbow trout	19 mg/l.
	Bluegill sunfish	14 mg/l.

Dichlormid:

LC ₅₀ (96 h)	Rainbow trout	141 mg/l.
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Daphnia:

EPTC:		14 mg/l.
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LC₅₀ (48 h)

Dichlormid:

LC ₅₀ (48 h)		161 mg/l.
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Birds:

EPTC:

Dietary LC ₅₀ (7 d)	Bobwhite quail	20000 mg/kg diet.
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Dichlormid:

Dietary LC ₅₀ (5 d)	Mallard ducks,	14500 mg/kg diet.
	Bobwhite quail	>10000 mg/kg diet.

Bees:

EPTC:

(LD ₅₀ , µg/bee)		11 µg/bee.
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Worms:

EPTC:

LC ₅₀ (14 d)	Earthworms	267 mg/kg soil.
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Plants:

EPTC: In plants, EPTC is rapidly metabolised to CO₂ and other metabolites.

Dichlormid: Rapidly metabolised in maize to several metabolites and to CO₂.

Persistence and degradability:

EPTC: In soil, EPTC rapidly undergoes microbial degradation to a mercaptan residue, an amino residue,

and CO₂ (J. P. Hubbell & J. E. Casida, J. Agric. Food Chem., 1977, 25, 404). Decomposes in 4–6 weeks in warm, moist soils.

Dichlormid: In soil, degradation is primarily microbial; DT₅₀ c. 8 d (27–29°C).

Bio-accumulative potential: Not determined.

Mobility in soil: Not determined.

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. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

14. TRANSPORT INFORMATION

UN NUMBER: NOT REGULATED

Not classified i.e. considered non-hazardous material according to UN Orange Book and international transport codes e.g. RID (rail), ADR (road) and IMDG (sea).

Special/Environmental Precautions: None known.

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

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

OHSA 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

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Packing and Labelling: Packed in 1, 5, 10, 20, 25, 50 & 200 litres fluorinated plastic containers/drums, labelled according to the South African regulations and guidelines.

Additional H statements (formulants):

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

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.