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SDS Kenso Agcare Ethephon 720 Growth Regulator

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Ethephon 720 Growth Regulator

Product Type: Plant Growth Regulator

Company Name: Kenso Corporation (M) Sdn Bhd

Address: Level 1, 98 Commercial Road, Teneriffe QLD 4005

Telephone Number: (07) 3216 1188

Emergency Telephone Number: 000 (Police or Fire Brigade)

13 11 26 (Poisons Information Centre)

Use: For crop thinning, loosening or ripening in various

crops and for accelerating boll opening, defoliation and pre-conditioning before defoliation of cotton as

specified in the Directions for Use table.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia.

Classified as a Dangerous Good according to the ADG Code.



Classification of the Hazardous Chemical: Acute toxicity (Dermal) – Category 4
Skin corrosion/ irritation – Category 1,2,3

Acute toxicity (Inhalation) - Category 4

Hazardous to the aquatic environment, long term - Chronic 3

GHS Signal Word: DANGER

Hazard statements: H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H332: Harmful if inhaled.

H412: Harmful to aquatic life with long lasting effects.

Prevention: P260: Do not breathe dusts or mists.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264: Wash contacted areas thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/

face protection.



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Response: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce

Vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and 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/physician. P312: Call a POISON CENTER/doctor/physician if you feel unwell.

P321: Specific treatment (see FIRST AID on this label)

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

reuse.

P363: Wash contaminated clothing before reuse.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/container as specified on the registered

label

SUSMP Classification: S6

ADG Classification: Class 8: Corrosive.

UN Number: 3265, CORROSIVE LIQUID, ACIDIC, N.O.S (contains ETHEPHON)

Emergency Overview

Physical Description & colour: Brown limpid liquid.

Odour: Slight pungent odour.

Major Health Hazards: Causes burns, may cause serious damage to eyes, irritating to skin,

harmful if swallowed.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

IngredientsCAS numberProportionEthephon16672-87-072%Water7732-18-5to 100%

SECTION 4 – FIRST AID MEASURES

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Atropine tablets 0.6 mg should be available in the area where this product is used, or in a nearby unlocked medicine cabinet. If swallowed, splashed on skin or inhaled, contact a Poisons Information Centre or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. The usual instruction is to give one atropine tablet every 5



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minutes until dryness of the mouth occurs.

This product has the properties of a strong acid and may cause strong mucosal damage if swallowed. Appropriate conventional treatment for circulatory shock, respiratory depression and convulsions may be needed.

Inhalation:	No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.
Skin contact:	Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 20 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). If irritation persists, repeat flushing and obtain medical advice. Completely decontaminate clothing, shoes and leather goods before reuse or discard. See instructions above about treatment with atropine.
Eye contact:	Quickly and gently, blot or brush away chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20-30 minutes, by the clock, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this SDS and take their advice). Take care not to rinse contaminated water into the unaffected eye or onto face. If irritation persists, repeat flushing. Call a Poisons Information Centre or a doctor urgently.
Ingestion:	If swallowed, rinse mouth thoroughly with water and contact a Poisons Information Centre. Urgent hospital treatment may be needed. See instructions above about treatment with atropine.

Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products

Thermal Decomposition

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures. This product is likely to decompose only after heating to dryness, followed by further strong heating.

Extinguishing Media

Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting

Breathable air apparatus should be worn when fighting a fire in which this product is involved.



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.

Personal Protection

For appropriate personal protective equipment (PPE), refer Section 8.

Clean-up Methods – Large Spillages

Place damaged containers in recovery bins (if available) and return to manufacturer. If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas absorbing remaining material into vermiculite or other absorbent.

SECTION 7 – HANDLING AND STORAGE

Handling

When handling this product, do not eat, drink or smoke.

When mixing this product always wear a PVC or rubber apron, elbow length PVC gloves, face shield or goggles and overalls buttoned at the wrist and neck.

When spraying this product, wear a face shield or goggles

After each day's use, wash gloves, face shield or goggles and overalls.

If product gets on skin, immediately wash area with soap and water.

Storage

Store in the closed, original container in a well-ventilated area as cool as possible out of direct sunlight. Keep from contact with fertilisers and seeds.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards

No exposure standards have been set for this product or the active ingredients.

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

Eye Protection

Eye protection is essential. Wear a face shield or goggles.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Colour: Brown limpid



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Odour: Slight pungent odour

Melting Point (°C):Not availableBoiling Point (°C):Not availableSpecific Gravity:1.31 ± 0.1 g/cm³Vapour Pressure:Not availableFlashpoint:Non flammable

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

The product is very stable at pH <3.5 and does not cause any degradation when stored in normal conditions and at temperature <75°C. At higher pH, possible decomposition with ethylene emission.

Hazardous Reactions

Reacts with alkaline materials, metallic salts and metals such as iron, copper and aluminium. Hazardous decomposition products include hydrogen chloride and ethylenes.

Hazardous Polymerization

Hazardous polymerization will not occur.

Materials to Avoid

Do not mix, store or apply the product or spray solutions of the product in galvanized steel or unlined steel (except stainless) containers or spray tanks. Avoid contact with alkaline materials.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (On Ethephon technical)

Acute Toxicity – Oral

LD₅₀ (rat): 3030 mg/kg **Acute Toxicity – Dermal**

LD₅₀ (rat): 1560 mg/kg

Acute Toxicity - Inhalation

LC₅₀ (rat) (4hr) 4.52 mg/l

Potential Health Effects

Health Effects

Ethephon is a weak to moderate cholinesterase inhibitor. Repeated minor exposure may have an accumulative effect. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are: -

Acute:

Inhalation: Not harmful. However, this product may be irritating, but is unlikely to

cause anything more than mild transient discomfort

Skin contact: Not harmful to skin. It should present no hazards in normal use.

However, this product is irritating, but is unlikely to cause anything

more than mild transient discomfort.



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Eye contact: Not harmful to eyes. However, product is corrosive to eyes. It will

cause severe pain, and corrosion of the eye and surrounding facial tissues. Unless exposure is quickly treated, permanent blindness and

facial scarring is likely.

Ingestion: This product is harmful if swallowed, and will cause cholinesterase

inhibition, corrosive to the gastrointestinal tract. Will cause burning to mouth and throat, possible irreversible problems, even death unless

treated promptly.

Carcinogenicity:

NOHSC: No significant ingredient is classified as carcinogenic by NOHSC.

NTP: No significant ingredient is classified as carcinogenic by NTP.

No significant ingredient is classified as carcinogenic by IARC.

Reproductive Toxicity

Data indicates no reproductive effects.

Mutagenicity

Ethephon studies in Salmonella typhimurium indicated no mutagenic effect up to 1,000 micrograms/100mL, without enzyme activation.

Carcinogenicity

A carcinogenicity study was conducted in mice using 70.6-72.1% Ethephon. The doses were administered in feed at 0, 15.5 156 or 1630 mg/kg/day to CD-1 mice for 78 weeks. No dose-related evidence of carcinogenicity/ oncogenicity was reported.

Other Information

The Australian Acceptable Daily Intake (ADI) for ethephon for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.17 (H) mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. *ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, March 2021.

SECTION 12 – ECOLOGICAL INFORMATION

Known Harmful Effects on the Environment

Not available.

Environ. Protection

Spray drift should be avoided, read the label for more information.

Acute Toxicity - Fish

 LC_{50} (96 hr) for Carp is >140 mg/l for a similar product LC_{50} (96 hr) for Rainbow trout is 720 mg/l for ethephon

Acute Toxicity - Daphnia

LC₅₀ (48hr) for Daphnia is 1000 mg/l for ethephon

Acute Toxicity -Algae

EC₅₀ (24-48 hr) for Chlorella vulgaris 32 mg/l

Acute Toxicity – Other Organisms

The following data is for the active ingredient, ethephon

LD₅₀ for bobwhite quail is 1072 mg/kg

Not toxic to bees.



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SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

SECTION 14 - TRANSPORT INFORMATION

ADG

UN Number: 3265

Proper shipping name: CORROSIVE LIQUID, ACIDIC, N.O.S (contains

ETHEPHON)

Class: 8 Corrosive Substances

Packaging group: III
Hazchem: 2X

IMO-IMDG

UN Number: 3265

Proper shipping name: CORROSIVE LIQUID, ACIDIC, N.O.S (contains

ETHEPHON)

Class: 8 Corrosive Substances

Packaging group: III
Marine pollutant: No

SECTION 15 - REGULATORY INFORMATION

SUSMP Classification S6

Packaging & Labelling POISON

KEEP OUT OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

CAS number Chemical Abstracts Service Registry Number

emergency services especially firefighters

IARC International Agency for Research on Cancer

NOHSC National Occupational Health and Safety Commission

SUSMP Standard for the Uniform Scheduling of Medicines & Poisons

UN NumberGHSUnited Nations NumberGlobally Harmonised System



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CONTACT POINT:

Police and Fire Brigade: Dial 000

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

For 24 hour emergency response: Dial 0428 776 327

Ask for Russell Clark