

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Bromoxynil 200 Selective Herbicide
Product Type: Group C Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Level 1, 98 Commercial Road, Teneriffe, 4005 QLD.
Telephone Number: (07) 3216 1188
Emergency Telephone Number: 000 (Police or Fire Brigade)
13 11 26 (Poisons Information Centre)
Use: For the control of weeds in wheat, oats, barley, cereal rye and triticale (alone or undersown), linseed, clover and lucerne pastures, turf, fallow, non-crop, roadsides and rights-of-way.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia.
 Not classified as a Dangerous Good according to the ADG Code.



Classification of the Hazardous Chemical: Flammable liquids – Category 4
 Acute toxicity (Oral) – Category 4
 Skin sensitization – Category 1
 Acute toxicity (Inhalation) – Category 3
 Reproductive toxicity – Category 2
 Hazardous to the aquatic environment, long term – Chronic 1

GHS Signal Word: **WARNING**

Hazard statements: H227: Combustible liquid.
 H302: Harmful if swallowed
 H317: May cause an allergic skin reaction.
 H331: Toxic if inhaled.
 H361: Suspected of damaging the unborn child.
 H410: Very toxic to aquatic life with long lasting effects.
Prevention: P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P210: Keep away from heat/sparks/open flames/hot surfaces and other ignition sources. No smoking.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264: Wash contacted areas thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.

Response:

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing and eye or face protection.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313: IF exposed or concerned: Get medical advice/ attention.

P311: Call a POISON CENTER or doctor/physician.

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

P330: Rinse mouth.

P333+P313: If skin irritation or rash occurs: Get medical advice/ attention.

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

P370+P378: In case of fire: Use water fog, foam, dry agent (carbon dioxide, dry chemical powder) for extinguish.

P391: Collect spillage.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P405: Store locked up.

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

SUSMP Classification:

S6

ADG Classification:

N/A

UN Number:

N/A

Emergency Overview

Physical Description & colour: Light brown to amber liquid.

Odour: Hydrocarbon odour.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Bromoxynil (present as n-octanoyl ester)	1689-99-5	20%
Inert ingredients	secret	<15%
Liquid hydrocarbon	64742-94-5	to 100%

SECTION 4 – FIRST AID MEASURES

General Information:

If poisoning occurs, contact a doctor or Poisons Information Centre, Phone Australia 131 126.

Inhalation:	Remove to fresh air, keep warm and at rest. Give artificial respiration or oxygen if breathing is shallow or stopped. Get medical attention immediately.
Skin contact:	Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.
Eye contact:	Hold the eyes and flush immediately with plenty of water. Seek medical advice if irritation develops.
Ingestion:	<p>If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Australia). Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Give a glass of water.</p> <p>Note: Where medical attention is not immediately available or where patient is more than 15 minutes from a hospital or unless instructed otherwise: induce vomiting with fingers down back of the throat, only if conscious. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</p>

Advice to Doctor:

Treatment is symptomatic. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

SECTION 5 – FIRE FIGHTING MEASURES

Specific Hazard

Product is a combustible liquid, (C1)

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products

Thermal Decomposition

If involved in a fire, it will emit oxides of carbon and nitrogen, hydrogen chloride, hydrogen bromide and possibly other compounds of bromine, chlorine and nitrogen.

Extinguishing Media

Extinguish fire with foam, dry powder, carbon dioxide or water spray.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Ensure suitable personal protection (including respiratory protection) during removal of spillage. Contain spill and absorb with sand or other absorbent material. Do not allow to enter drains, sewers and watercourses. Collect in sealed open top container for disposal. Triple rinse containers, add rinsings to spray tanks and send containers for recycling or if not recycling, break, crush or puncture and bury empty containers in a local authority landfill or in accordance with local, state or federal regulation. Do not dispose of undiluted chemicals on site.

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 days 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.

The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m³; 17ppm TWA, as total hydrocarbon.

Engineering Controls

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

Personal Protective Equipment

When preparing and using the product wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield.

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:	Light brown to amber
Odour:	Hydrocarbon odour
Boiling Point (°C):	178 - 209°C (for solvent)
Vapour Pressure:	0.19 mPa @ 25°C for bromoxynil octanoate
Specific Gravity:	1.030
Flammability:	Combustible Liquid, (C1)
Solubility:	Emulsify in water

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability

This material is stable under normal use and storage conditions.

Conditions to avoid

No information available.

Incompatible Materials

No information available.

Hazardous decomposition products

No information available.

Hazardous reactions

Keep away from strong oxidising agents, may react violently.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity – Oral

LD₅₀ (rat) 238 mg/kg for bromoxynil octanoate

Acute Toxicity – Dermal

LD₅₀ (rat) >2000 mg/kg for bromoxynil octanoate

Acute Toxicity – Inhalation

LC₅₀ (rat) (4hr) 0.72 mg/l for bromoxynil octanoate

Eye Irritation

The product is an eye irritant.

Skin Irritation

Mild to moderate skin irritant.

Skin Sensitisation

This product is a skin sensitizer.

Potential Health Effects

Acute:

Swallowed:	Harmful
Eye:	Cause irritation
Skin:	Cause irritation
Inhaled:	Irritation to respiratory system

Chronic:

Chronic Overexposure: Weight loss and damage to liver and kidneys may be expected if exposure is excessive.

Other Information

The Australian Acceptable Daily Intake (ADI) for bromoxynil for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.3 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (APVMA, 'ADI List', June 2023).

SECTION 12 – ECOLOGICAL INFORMATION

Persistence /Degradability

Average soil half life of bromoxynil is 7 days.

Known Harmful Effects on the Environment

Harmful to fish and other aquatic organisms.

Other Precautions Do not spray in high winds.

Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

Environ. Protection

Marine pollutant.

Spray drift can cause damage, read the label for more information.

Acute Toxicity – Fish

The following is data for the active ingredient, bromoxynil octanoate.

Toxic to fish. LC₅₀ (96hr) for rainbow trout is 0.041 mg/l.

Acute Toxicity – Daphnia

LC₅₀ (48hr) for daphnia is 0.046 mg/l for bromoxynil octanoate.

Acute Toxicity – Other Organisms

Bees: Not toxic to bees.

LD₅₀ >100 µg/bee.

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:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BROMOXYNIL OCTANOATE)
Class:	9
Packaging group:	III
Storage and transport:	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

IMO-IMDG

UN Number:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BROMOXYNIL OCTANOATE)
Class:	9
Packaging group:	III
Marine pollutant:	Yes

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification S6

Packaging & Labelling POISON
KEEP OUT OF REACH 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
Hazchem Number	Emergency action code of numbers and letters that provide information to 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 Number	United Nations Number
GHS	Globally Harmonised System

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