

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Product Name:** Kenso Agcare Atrazine 900 WG Herbicide  
**Product Type:** Group C Herbicide  
**Company Name:** Kenso Corporation (M) Sdn Bhd  
**Address:** Kirkland Corner H/177, Old Cleveland Rd.  
Coorparoo Queensland 4151  
**Telephone Number:** (07) 3847 4288  
**Facsimile Number:** (07) 3847 4188  
**Emergency Telephone Number:** 000 (Police or Fire Brigade)  
**13 11 26 (Poisons Information Centre)**  
**Use:** For the control of annual weeds in sorghum, maize, sweet corn, saccaline, broom millet, sugarcane and non-crop situations. Refer to the product label for full use instructions.

### SECTION 2 – HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of Worksafe Australia.  
**Risk Phrase(s):** R20/22 Harmful through inhalation, and if swallowed.  
R36 Irritating to eyes.  
R40 Harmful: possible risk of irreversible effects.  
R43 May cause sensitization by skin contact.  
**Safety Phrase(s):** S2 Keep out of reach of children.  
S20 When using, do not eat and drink.  
S25 Avoid contact with eyes.  
S28 After contact with skin, wash immediately with plenty of water.  
S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
S46 If swallowed, contact a doctor or Poisons Information Centre immediately and show this container or label.  
S36/37 Wear suitable protective clothing and gloves.  
**SUSDP Classification:** S5  
**ADG Classification:** None allocated. Not a dangerous good.  
**UN Number:** None allocated.

### Emergency Overview

**Physical Description & colour:** Off-white water dispersible granules.  
**Odour:** Non specific odour  
**Major Health Hazards:** No major health hazard is known.

### Potential Health Effects

#### Health Effects

##### Acute:

**Swallowed:** low toxicity, if swallowed. Oral LD50 (rats) > 2200 mg/kg.  
**Dermal absorption:** Low toxicity. Tests on rats using **atrazine technical** indicate a low toxicity due to skin contact with undiluted product. (LD<sub>50</sub> > 3100 mg/kg, for active ingredient)  
**Eye:** Slightly irritating. (rabbits)

**Skin:** Slightly irritating. (rabbits)

**Inhaled:** Low toxicity. Tests on rats with comparable 900 WG formulation indicate a low toxicity due to inhalation of undiluted product.  
(LC<sub>50</sub> (4h), active ingredient > 710 mg/m<sup>3</sup>, no toxic concentration attainable)

**Chronic:** (Active Ingredient)

Atrazine technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. After long-term administration (ie, close to 2 years of continuous feeding) a slight increase in the incidence of mammary tumours was reported in one species (rat), one sex (female) and one strain (Sprague-Dawley) in one study at higher doses. A more recent study (1992) using Sprague-Dawley rats showed no significant difference between rats fed normal diet and those fed on a diet containing atrazine with regard to the incidence of tumours. Recent studies with the Fischer rat strain have shown no evidence of tumour producing potential. The relevance of the mammary tumour finding to humans is doubted as epidemiological studies of workers involved in the production of atrazine for up to 30 years have shown no evidence of health problems associated with atrazine exposure. Atrazine has been listed by IARC as a Class 3, not classifiable as to carcinogenicity to humans.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Atrazine	1912-24-9	900 g/kg
Stabilisers and surfactant		balance

### SECTION 4 – FIRST AID MEASURES

<b>Swallowed</b>	If swallowed give two glasses of water immediately and induce vomiting. Seek medical advice..
<b>Eye</b>	Hold eyes open, flood with water for at least 15 minutes. Seek medical advice.
<b>Skin</b>	Remove contaminated clothing and wash affected skin thoroughly with soap and water. .
<b>Inhaled</b>	Not volatile. Inhalation of dust may cause respiratory irritation. Remove affected persons into fresh air.

**Advice to Doctor**

Treat symptomatically.

### SECTION 5 – FIRE FIGHTING MEASURES

**Fire/Explosion Hazard**

This product is non-flammable, non-explosive and non-combustible. Extinguish warehouse or factory fires using fine water spray or foam. Do not allow fire-water to enter drains.

**Dangerous decomposition or Combustion Products**

**Thermal decomposition**

None

**Hazardous decomposition products**

Carbon dioxide, carbon monoxide, nitrogen oxides, water.

**Extinguishing Media**

Use water spray, foam.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Spills and Disposal

Shovel or sweep into drums. Dispose off in an approved land-fill. Wash contaminated surfaces with detergent and water. Do not allow spills to contaminate rivers, dams or other waterways.

## SECTION 7 – HANDLING AND STORAGE

### Storage

Store in the closed, original container in a well-ventilated area. Do not store for prolonged periods in direct sunlight.

### Transport

Considered non-hazardous by Australian Code for the Transport of Dangerous Goods by Road and Rail.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Standards:

5 mg/m<sup>3</sup> of air (8h time weighted average)

### Engineering Controls:

No special requirements. Product is used outdoors.

### Personal Protection:

Avoid contact with eyes and skin. Do not inhale dust. When opening the container and preparing the spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) a washable hat, elbow-length PVC gloves and face shield or goggles. Wear a half-face respirator if the level of atrazine in the air is likely to exceed the occupational exposure standard. If product gets in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Use only protective clothing bearing the mark of the Standards Association of Australia.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Granules
<b>Colour:</b>	Off-white
<b>Odour:</b>	Non specific odour
<b>Boiling point (°C):</b>	Not applicable
<b>Vapour Pressure:</b>	0.04 mPa (20 °C)
<b>Specific Density:</b>	Not applicable
<b>Flashpoint:</b>	Not applicable
<b>Flammability Limits:</b>	Non flammable
<b>Solubility in Water:</b>	soluble in water (30 mg/L)

## SECTION 10 – STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	This product is stable under normal storage conditions.
<b>Conditions to Avoid:</b>	None.
<b>Incompatibilities:</b>	None.
<b>Hazardous Polymerization:</b>	Hazardous polymerization is not possible.

## SECTION 11 – TOXICOLOGICAL INFORMATION

**General Information:** No harmful effects are expected if the precautions on the label and MSDS are followed.

**Inhalation:** Avoid breathing. May cause irritation to mucous membrane and respiratory tract.

**Ingestion:** The product is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and

use are not expected to cause injury. Possible symptoms of exposure are nausea, vomiting and headache.

**Skin:** Prolonged contact with the concentrate may cause irritation.

**Eye:** The product may cause irritation to the eyes unless washed off immediately.

**Chronic Effects:** Evidence from animal studies indicate that repeated or prolonged exposure to atrazine can result in blood disorders.

**Acute Toxicity:** Oral:

LD50 (rat) >3080 mg/kg

Dermal:

LD50 (rabbit) >3100 mg/kg

Inhalation:

LC50 (rat) 4 hrs >5100 mg/L air for atrazine

**Other Information:** The Australian Acceptable Daily Intake (ADI) for atrazine for a human is 0.005 mg/kg/day. This is based on

NOEL of 0.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept of Health and Ageing, 'ADI List', TGA, August 2003).

## SECTION 12 – ECOLOGICAL INFORMATION

**Effects on birds:** Do not appear to pose any threat to birds.

**Effects on aquatic organisms:** Mildly toxic to fish and other aquatic organisms.

LC50 (48 Hours) for rainbow trout is 10 mg/L.

LC50 (48 Hours) for carp is 100 mg/L.

**Effects on other organisms:** The compound is non toxic to bees.

**Other Information:** Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product. Slowly hydrolyses in water at neutral pH.

## 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

<b>UN Number:</b>	None allocated
<b>Proper Shipping Name:</b>	None Allocated
<b>SUSDP Classification:</b>	S5
<b>ADG Class:</b>	None allocated. Not a dangerous good.
<b>Hazchem Code:</b>	None allocated.
<b>Packing Group:</b>	None allocated.

## SECTION 15 – REGULATORY INFORMATION

<b>SUSDP Classification</b>	S5
<b>Packaging &amp;</b>	CAUTION

**Labelling** KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

### SECTION 16 – OTHER INFORMATION

**This MSDS 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  
**AICS** Australian Inventory of Chemical Substances  
**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  
**SUSDP** Standard for the Uniform Scheduling of Drugs & Poisons  
**UN Number** United Nations Number

**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 0439 933 556  
Ask for Murray Goodlich