

## 1. IDENTIFICATION

### Product Identifier

Product Name **KELPIE® A-ZINE 900 HERBICIDE**

Product Code(s) **A5852W**

### Other Means of Identification

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S.

Recommended Use: Herbicide

Details of Manufacturer or Importer **SINOCHEM INTERNATIONAL AUSTRALIA PTY LTD**  
 ABN: 74 160 164 616

Address **Level 8 / 606 St Kilda Road**  
**Melbourne, Victoria, 3004**  
**Australia**

Telephone **+61 3 9520 8888**

Emergency Phone Number **Australia: 1800 033 111**

## 2. HAZARD IDENTIFICATION

<b>Classification of the Hazardous Chemical:</b>	Skin sensitisation	Category 1
	STOT (repeated exposure)	Category 2
	Hazardous to the aquatic environment (acute)	Category 1
	Hazardous to the aquatic environment (chronic)	Category 1

**Signal Word:** WARNING

**Hazard Statement(s):**

- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure by ingestion.
- H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

### Prevention:

- P260 Do not breathe dust.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P314 Get medical advice/attention if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.

**Disposal:**

P501 Dispose of contents/container to an approved waste disposal plant.

**Hazard Symbols:**

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

---

**Substance:** Active Ingredient: Atrazine

**Mixture:**

Identity of Chemical Ingredient	CAS Number	Proportion (w/w)
Atrazine	1912-24-9	90 %
Ingredients determined not to be hazardous	-	to 100 %

### 4. FIRST-AID MEASURES

---

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

**Description of Necessary First Aid Measures:**

Inhalation:	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
Ingestion:	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin contact:	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye contact:	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

**Symptoms Caused by Exposure:** No symptoms known or expected.

**Medical Attention and Special Treatment:** There is no specific antidote available. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

---

<b>Suitable Extinguishing Media:</b>	<b>Small fires:</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. <b>Large fires:</b> Alcohol-resistant foam or Water spray.
<b>Specific Hazards Arising from the Chemical:</b>	This product may burn and/or decompose if exposed to fire. Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, ammonia and oxides of nitrogen.
<b>Special Protective Equipment and Precautions for Fire Fighters:</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.
<b>Hazchem Code:</b>	2Z

## 6. ACCIDENTAL RELEASE MEASURES

---

<b>Personal Precautions, Protective Equipment and Emergency Procedures:</b>	Refer to protective measures listed in sections 7 and 8. Avoid dust formation.
<b>Environmental Precautions:</b>	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
<b>Methods and Materials for Containment and Clean Up:</b>	Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.  For disposal considerations see section 13. Refer to protective measures listed in sections 7 and 8.

## 7. HANDLING AND STORAGE

---

<b>Precautions for Safe Handling:</b>	Avoid inhalation of dust, and skin or eye contact. Use only in a well-ventilated area. Keep containers sealed when not in use. Prevent the build-up of dust in the work atmosphere. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Maintain high standards of personal hygiene i.e. by washing hands prior to eating, drinking, smoking or using toilet facilities.
---------------------------------------	---

**Conditions for Safe Storage, Including any Incompatibilities:**

Store in a well-ventilated area away from heat and sources of ignition, out of direct sunlight and moisture. Take precautions against static electricity discharges. Use proper grounding procedures. Store away from incompatible materials such as materials that support combustion (oxidising materials). Store in suitable, labelled containers. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Ensure that storage conditions comply with applicable local and national regulations. For information on the design of the storeroom, reference should be made to Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances and AS/NZS 4745.2004 'Code of Practice for Handling Combustible Dusts'.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Control Parameters:**

Exposure Standards:

Chemical name	CAS Number	Exposure Limit	Value Type	Source
Atrazine	1912-24-9	5 mg/m <sup>3</sup>	TWA	HCIS

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Biological Monitoring:**

No specific biological monitoring required.

**Engineering Controls:**

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

Where necessary, seek additional occupational hygiene advice.

**Personal Protective Equipment:**

The use of technical measures should always have priority over the use of personal protective equipment.

When selecting personal protective equipment, seek appropriate professional advice.

Personal protective equipment should comply with relevant national standards

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

## OVERALLS, GLOVES, RESPIRATOR



Eye/face protection:

No special protective equipment required.

Skin and body protection:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. Wear as appropriate: overalls.

Hand protection:

Wear protective gloves.

Always wash hands before smoking, eating, drinking or using the toilet.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break-through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Respiratory protection:

If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator or an air supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Granules
Colour:	White
Odour:	Characteristic
Specific gravity:	Not applicable
pH:	6.0 – 9.0
Melting point / freezing point:	Not available
Boiling Point/Range (°C):	Not available
Flash point (°C):	Not applicable
Flammability (solid, gas):	May form combustible dust concentrations in air.
Flammability limit in air:	Not available
Upper flammability or explosive limits:	Not available
Lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Bulk density:	Not available

Water solubility:	Disperses in water
Solubility(ies):	Not available in other solvents
Partition coefficient:	Not available
Auto-ignition temperature (°C):	Not available
Decomposition temperature:	Not available
Kinematic viscosity:	Not applicable
Dynamic viscosity:	Not applicable

## 10. STABILITY AND REACTIVITY

---

<b>Reactivity:</b>	Relatively stable in neutral, weakly acidic and alkaline media. Compatible with most herbicide formulations except very strong acid/alkaline formulations.
<b>Chemical stability:</b>	Stable under normal conditions of storage and handling.
<b>Possibility of hazardous Reactions:</b>	No dangerous reactions known under conditions of normal use.
<b>Conditions to avoid:</b>	Heat, flames and other sources of ignition.
<b>Incompatible materials:</b>	Strong oxidising agents. Hydrolysed by strong acids and bases.
<b>Hazardous decomposition products:</b>	Thermal decomposition may result in the release of toxic and/or irritating products: fumes including oxides of nitrogen, carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

---

### Health Effects from Likely Routes of Exposure:

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

<b>Ingestion:</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Eye contact:</b>	Eye contact may cause mechanical irritation. May result in mild abrasion. Eye irritation, rabbit: minimal irritation.
<b>Skin contact:</b>	Skin contact may cause mechanical irritation resulting in redness and itching. May cause an allergic skin reaction.
<b>Inhalation:</b>	Inhalation of dust may cause irritation of the nose, throat and respiratory system. Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.
<b>Acute toxicity:</b>	No LD <sub>50</sub> data available for the product. However, for atrazine:
Oral toxicity:	LD <sub>50</sub> , rat: 3,090 mg/kg (atrazine)
Dermal toxicity:	LD <sub>50</sub> , rat: > 3,100 mg/kg (atrazine)
Inhalation toxicity:	LC <sub>50</sub> (4h), rat: > 5.82 mg/L (atrazine)
Skin irritation:	No skin irritation (rabbit)

Eye irritation: No eye irritation (rabbit)  
 Skin sensitisation: Skin sensitiser (atrazine – Guinea pig)

**Chronic effects:****Mutagenicity:****Carcinogenicity:****Reproductive toxicity:****Specific Target Organ Toxicity (STOT) - single exposure:****Specific Target Organ Toxicity (STOT) - repeated exposure:**

Did not show mutagenic or teratogenic effects in animal experiments.

This substance has been reported to cause tumours in certain animal species., There is no evidence that these findings are relevant to humans.

No toxicity to reproduction.

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

Toxicity to fish: Bluegill sunfish 96 hr LC<sub>50</sub> : >59 mg/L (similar formulation)  
 Rainbow trout 96 hr LC<sub>50</sub> : 4.5 mg/L (atrazine)

Toxicity to daphnia and other aquatic invertebrates:

*Daphnia magna* 48 hr LC<sub>50</sub> : >24 mg/L (similar formulation)

Toxicity to algae:

Green algae *Pseudokirchneriella subcapitata* ErC<sub>50</sub> : 0.16 mg/L (atrazine)

Toxicity to soil dwelling organisms:

Earthworm *Eisenia fetida* 14 d LC<sub>50</sub>: 78 mg/kg dry soil

Toxicity to bees:

Honey bee LD<sub>50</sub>: >100 µg/bee (atrazine)

Toxicity to birds:

Mallard duck LD<sub>50</sub>: >2,000 mg/kg (atrazine)

Bobwhite quail LD<sub>50</sub>: >4,237 mg/kg (atrazine)

**Persistence/degradability:**

Half-life, soil DT<sub>50</sub>: 43 d

Half-life, water DT<sub>50</sub>: 20 d

**Mobility in Soil:**

Highly mobile in soils

**Bioaccumulative Potential:**

Medium bioaccumulation potential

## 13. DISPOSAL CONSIDERATIONS

**Safe Handling and Disposal Methods:** Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Do not dispose of waste into sewer.  
 Where possible recycling is preferred to disposal or incineration.  
 If recycling is not practicable, dispose of in compliance with local regulations.

**Disposal of Contaminated Packaging:** Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.  
 Single-rinse or shake remainder into spray tank.  
 DO NOT dispose of undiluted chemicals on site.

Puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots in compliance with relevant local, state or territory government regulations.  
DO NOT burn empty containers or product.

## 14. TRANSPORT INFORMATION

---

### ADG

UN number: 3077  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ATRAZINE)  
Class: 9  
Packing group: III  
Hazchem Code: 2Z  
Remarks: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings, IBC's, or any other receptacle not exceeding 500 kg(L).

### IATA-DGR

UN number: 3077  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ATRAZINE)  
Class: 9  
Packing group: III  
Packing instruction (cargo aircraft): 956  
Packing instruction (passenger aircraft): Y956  
Environmentally hazardous: Yes

### IMDG-Code

UN number: 3077  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ATRAZINE)  
Class: 9  
Packing group: III  
EmS Code: F-A  
S-F  
Marine pollutant: Yes



## 15. REGULATORY INFORMATION

---

**APVMA Product Registration Number:** 83069

**Poisons Schedule (SUSMP):** S5

## 16. OTHER INFORMATION

---

**Date of preparation or review:** 04/12/2020

### Full text of abbreviations and acronyms:

ADG	Australian Dangerous Goods Code
APVMA	Australian Pesticides & Veterinary Medicines Authority
EmS	Emergency Schedule
HCIS	Hazardous Chemical Information System – the Safe Work Australia database of chemical classifications and workplace exposure standards
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LD <sub>50</sub>	Lethal Dose to 50% of a test population (Median Lethal Dose)
LC <sub>50</sub>	Lethal Concentration to 50 % of a test population
MARPOL	International Convention for the Prevention of Pollution from Ships
NO(A)EL	No Observed (Adverse) Effect Level
n.o.s.	Not Otherwise Specified
OECD	Organization for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TWA	The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

® KELPIE is a registered trademark of Sinochem International Crop Care (Overseas) Pty Ltd.

### Disclaimer of Liability

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.