

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Atrazine 90%WDG

Trade Name: OUREA

CAS No.: 1912-24-9

Molecular Weight: 215.68

Chemical Formula: C₈H₁₄ClN₅

Supplier and Authorized Exporter: Shenzhen Yancheng Chemicals Co., Limited

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2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Skin sensitization, Category 1

Specific target organ toxicity – repeated exposure, Category 2

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008

Pictogram(s)



GHS09 GHS08

Signal word

Warning

Hazard statement(s)

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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

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

P321 Specific treatment (see ... on this label).

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

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

3. COMPOSITION INFORMATION

Ingredient		CAS No.	Content
Active ingredient	Atrazine	1912-24-9	90%
Inert	Not listed		Up to 100%

4. FIRST AID MEASURES

4.1 Description of 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. Have this MSDS with you when you call.

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

Gently brush away excess solids. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact

Quickly and gently brush particles from eyes. No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion

If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Water fog or fine spray. Do not use high volume water jet, due to contamination risk.

5.2 Special hazards arising from the substance or mixture

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds

5.3 Fire Fighting

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and

use unmanned hose holder or monitor nozzles. If area is heavily exposed to fire and if conditions permit, let fire burn itself out. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Generating poisonous and corrosive fumes.

5.3 Protective clothing

Full protective clothing and self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Wear appropriate safety clothing and eye/face protection. Environmental Precautions: Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system. For personal protection see section 8.

6.2 Environmental precautions

Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.

6.3 Cleaning procedure

Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material and place in waste containers. Wash area with water containing soda or detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Heavily contaminated soil layers should be removed and disposed of in an approved way. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical

6.4 Disposal

Waste disposal

In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

Refer to the product label for instructions. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid skin and eye contact and inhalation of spray mist. Keep away from heat and sources of ignition. Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. APPROVED HANDLER:

This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilizers and seeds. Keep away from children or uninformed persons. Avoid extreme temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

8.1 Personal protective equipment

Clothing

Consult supplier to confirm that the equipment is suitable.

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves

Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance

Eye protection

The use of safety goggles with side shields is recommended.

Respiratory protection

Wear respirator if ventilation is inadequate or exposure to high levels are likely

Emergency eye wash

Where there is any possibility that an employee's eyes may be exposed to this substance, 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	White granulated solid
Odour	No characteristic odour
Odour threshold	No data available
pH	6.0 - 9.0
Melting point/freezing point	Atrazine melts at 176°C
Initial boiling point and boiling range	2015 0C/101 kPa
Flash point	No data available
Evaporation rate	N/A
Flammability (solid,gas)	No flammable
Upper/lower flammability or explosive limits	No flammable
Vapour pressure	Negligible at normal ambient temperatures.
Vapour density	No data available

Relative density	No data available
Water Solubility	Miscible in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not available.

10.2 Chemical stability

Stable under normal conditions. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.

10.3 Possibility of hazardous reactions

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

10.4 Conditions to avoid

None known – Store out of direct sunlight and keep away from sources of heat.

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Rat LD50 oral: >3992 mg/kg b.w. (in water)

Rat LD50 dermal: > 3100 mg/kg b.w.

Rat LC50 inhalation: > 5800 mg/cu m 4hr

Skin corrosion/irritation

Mild irritant (Rabbit)

Serious eye damage/irritation

Non irritant (Rabbit)

Respiratory or skin sensitization

Skin sensitiser in guinea pigs, but not in humans

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional information

No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish: LC50; Species: *Lepomis macrochirus* (Bluegill) weight 0.6 g; Conditions: freshwater, static, 22°C, pH 7.1, hardness 43 mg/L CaCO₃; Concentration: 48000 ug/L for 24 hr (95% confidence interval: 42000-55000 ug/L) /43% purity

Toxicity to daphnia and other aquatic invertebrates: EC50; Species: *Daphnia magna* (Water Flea); Conditions: freshwater, flow through; Concentration: 49000 ug/L for 48 hr; Effect: intoxication, immobilization /80% purity, wettable powder formulation

Toxicity to algae: EC50; Species: *Anabaena inaequalis* (Blue-Green Algae), 6.5x 10⁴ cells/mL; Conditions: freshwater, static; Concentration: 55000 ug/L for 2 hr; Effect: physiology, nitrogen fixation

Toxicity to microorganisms: no data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

Very toxic to aquatic life.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

13.2 Contaminated disposal

Refer to the product label for instructions. Triple rinse empty containers before disposal in the following manner: Invert the container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Thereafter, rinse the container three times with a volume of water equal to a

third of that of the container volume. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt; puncture and flatten containers and dispose at a licensed landfill site according to local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Prevent contamination of water sources, food or feed by disposal. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. If recycling, replace cap and take containers to the designated recycling point. If containers cannot be recycled, they should be disposed of together with the waste chemical according to local regulations.

14. TRANSPORT INFORMATION

UN Number: 3077

Road transport ADR/RID

IMO hazardous description: Road, Rail & Barge: Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine) Truck - Label: 9

Rail – Hazard Label: 9

Barge Hazard Label: 9

UN Number: 3077

Sea Transport: Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID

N.O.S. (Atrazine)

Sea - IMO/IMDG Class: 9

UN Nr: 3077

Hazard Label: 9

Packing Group: III

Marine Pollutant: N

Air transport IATA/ICAO: Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID

N.O.S. (Atrazine)

Air-ICAO/IATA

Class : 9

UN Nr : 3077

Hazard Label: 9 Class: 9 Packing group: III Hazard label: 9, EHSM

15. REGULATORY INFORMATION

15.1 Labeling according to Regulation (EC) No 1272/2008

Pictogram(s)



GHS09 GHS08

Signal word

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 P391 Collect spillage.

16. OTHER INFORMATION

Disclaimer:

The manufacture provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The manufacture makes no representations or express or implied, including without limitation any warranties of merchantability fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, the manufacture will not be responsible for damages resulting from use of or reliance upon this information.
