

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PROMETRYN 500G/L SC

CHEMICAL NAME: N2,N4-diisopropyl-6-methylthio-1,3,5-triazine-2,4-diamine
CAS NUMBER: 7287-19-6
MOLECULAR FORMULA: C₁₀H₁₉N₆S
MOLECULAR WEIGHT: 241.4 g/mol
USE: Herbicide

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Prometryn	7287-19-6	500 g/L
OTHER INGREDIENTS		Up to 1L

3. HAZARDS IDENTIFICATION

HAZARD STATEMENTS:

Not classified as hazardous.

Non-dangerous goods.

PRECAUTIONARY STATEMENT(S):

Do not breathe vapour or spray mist.

Avoid contact with skin and eyes.

4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE:

Consult a physician. Show this safety data sheet to the doctor in attendance.

INHALATION:

Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

SKIN CONTACT:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

EYE CONTACT:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

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

EXTINGUISHING MEDIA:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide extinguisher. DO NOT use direct jet of water.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:	Carbon monoxide, hydrogen cyanide, acetonitrile, oxides of nitrogen and sulfur
ADVICE FOR FIREFIGHTERS:	Self-contained breathing apparatus and total protection required in enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator.

ENVIRONMENTAL PRECAUTIONS

Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent contamination of soil and water.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION:	Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.
RESPIRATORY PROTECTION:	If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.
SKIN PROTECTION:	The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products



and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

CONTROL OF ENVIRONMENTAL EXPOSURE: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber liquid

ODOUR: Odourless

MELTING POINT: 118~120°C (active ingredient)

SOLUBILITY: Forms suspensions in water.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.

STORAGE STABILITY: Stable under normal storage conditions in original container for at least two years.

INCOMPATIBILITY: Strong oxidizers and strong acids.

CONDITIONS TO AVOID: Extreme heat, sources of ignition or exposure to flames.

HAZARDOUS DECOMPOSITION PRODUCTS: No data available

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD₅₀ 3750-5235 mg/kg (rats)

ACUTE DERMAL LD₅₀ >3100mg/kg (rats)

INHALATION LC₅₀ >5.2 mg/L • 4h(rats)

IRRITATION Slightly irritation (Rabbits)

SENSITISATION No sensitization for guinea pigs

CARCINOGENICITY Prometryn was not carcinogenic in a 2-year rat feeding study at doses of up to 62.5 mg/kg/day. The available data suggest that prometryn is not carcinogenic.

MUTAGENESIS Eleven different tests for mutagenicity involving hamsters, bacteria, or mammalian cell cultures have all produced negative results, indicating that prometryn is not a mutagen..

REPRODUCTIVE EFFECTS In a three-generation study, no reproductive effects were seen in rats fed up to 5 mg/kg/day. From the data, it appears that prometryn is unlikely to cause reproductive effects.

TOXICOLOGICAL CLASSIFICATION No teratogenic effects were seen in studies of rats fed 250 mg/kg/day, the highest dose tested. Prometryn does not appear to cause birth defects.

12. ECOLOGICAL INFORMATION



EFFECTS ON BIRDS	Prometryn is practically nontoxic to birds; the acute oral LD ₅₀ values in bobwhite quail and mallard ducks are greater than 2150 mg/kg and greater than 4640 mg/kg, respectively.
EFFECTS ON AQUATIC ORGANISMS	Prometryn ranges from moderately toxic to highly toxic to fish. It is harmful to freshwater invertebrates. The observed concentration of prometryn in bluegill and in rainbow trout is 9 to 10 times the ambient water concentration, indicating a low potential for bioaccumulation.
EFFECTS ON OTHER ORGANISMS	Prometryn is nontoxic to bees and earthworms, with a reported contact LD ₅₀ of greater than 99µg/bee and a 48-hour LC ₅₀ of 153 mg/kg in earthworms.
ENVIRONMENTAL FATE	Prometryn is moderately persistent in the soil, with a field half-life of 1 to 3 months. It will persist longer under dry or cold conditions, which are not conducive to chemical or biological activity. No significant hydrolysis, or breakdown in water, was found when prometryn was tested over a period of 28 days in water ranging from slightly acidic to slightly alkaline and over a variety of test temperatures. These data indicate that prometryn is potentially persistent in the water environment.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Dispose of product only by using according to the label, or at an approved landfill.

CONTAMINATED PACKAGING

Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. TRANSPORT INFORMATION

DOT

UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Prometryn 500G/L SC)

IMDG

UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Prometryn 500G/L SC)

IATA

UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Prometryn 500G/L SC)

15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

All of the significant ingredients in this product are compliant with local regulations.



16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

Zhejiang Zhongshan Chemical Industry Group Co., Ltd



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