

Material Safety Data Sheet

SECTION 1: PRODUCT IDENTIFICATION

Product name: Pendimethalin 330 g/L EC

Chemical abstracts name: N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine

Molecular formula: C₁₃H₁₉N₃O₄

CAS No.: 40487-42-1

Use catalogue: Herbicide

SECTION 2: COMPOSITION AND INGREDIENT INFORMATION

Pendimethalin

330 g/L

SECTION 3: HEALTH HAZARD INFORMATION

Possible hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 4: FIRST AID MEASURES

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Gently blot away excess liquid. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye Contact: 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 swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Note to physician: Antidote: No special antidote. Symptomatic treatment.

SECTION 5: FIRE AND EXPLOSION INFORMATION

Hazardous products of combustion: This product is classified as flammable. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing agents: Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog. Avoid the use of water jets.

Fire fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For spills: Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.

Protective clothing: For appropriate personal protective equipment see section 8.

Environmental precaution: Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

SECTION 7: HANDLING AND STORAGE

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin protection: If you believe you may have a sensitisation to this product or any of its declared ingredients, you should prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective material types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Safety deluge showers should, if practical, be provided near to where this product is being used.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark brown to yellow coloured liquid

Odor: Characteristic odor

pH: 4.0-7.0

SECTION 10: STABILITY AND REACTIVITY INFORMATION

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to avoid: Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: Strong acids, strong bases, strong oxidising agents.

Fire decomposition: 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. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: Acute oral LD₅₀ for rats >5000 mg/kg.

Skin and eye: Acute dermal LD₅₀ for rabbits >5000 mg/kg. Non-irritating to skin and eyes (rabbits).

Inhalation: LC₅₀ for rats >2.0 mg/l.

SECTION 12: ECOLOGICAL INFORMATION

For Pendimethalin tech

Birds: Acute LD₅₀ for mallard ducks 1565.81 mg/kg b.w.

Fish: LC₅₀ (96 h) for rainbow trout 0.13 mg/l.

Daphnia: EC₅₀ (48 h) 0.28 mg/l.

Algae: EC₅₀ 72h for algae for is 4.0 µg/L.

Bees: LD₅₀ (topical) >100 µg/bee.

SECTION 13: DISPOSAL CONSIDERATIONS

Pesticide disposal: For the disposal of unwanted / unusable chemicals, seek advice from suppliers, local government, your local Waste Management Authority

Container disposal: Where possible, used containers should be recycled after triple rinsing. Check with local suppliers. Otherwise, bury at an authorised landfill. Before disposing of unwanted containers or used packaging on a property, ensure that all appropriate regulations, both Local and State Government, are observed. Significant penalties may apply

SECTION 14: TRANSPORT INFORMATION

UN No.: 1993

Class: 3

SECTION 15: REGULATORY INFORMATION

Risk phrase(s):

R22 Harmful if swallowed.

R65 Harmful: May cause lung damage if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

Safety phrases:

S20 When using, do not eat or drink.

S24 Avoid contact with skin.

S28 After contact with skin, wash immediately with plenty of soap and water.

S35 This material and its container must be disposed of in a safe way.

S39 Wear eye/face protection.

S60 This material and its container must be disposed of as hazardous waste.

S24/25 Avoid contact with skin and eyes.

S36/37 Wear suitable protective clothing and gloves

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of our company's knowledge. We make no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. To the extent permitted by applicable law, we disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.