

ATLACIDE SOLUBLE POWDER WEEDKILLER

Contains 58% w/w sodium chlorate (with a fire suppressant)

MAFF 00125

STATUTORY CONDITIONS RELATING TO USE
FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/INDUSTRIAL
HERBICIDE

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL
SAFETY PRECAUTIONS MARKED * IS A LEGAL REQUIREMENT

For use on land not intended to bear vegetation
Maximum individual dose: 500 kg of product per hectare

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE
BEFORE USE



HARMFUL

HARMFUL IF SWALLOWED

**OXIDISING, CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE
HARMFUL TO AQUATIC ORGANISMS.**

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES WITH
CHEMICAL OR USED CONTAINER. THIS MATERIAL AND ITS CONTAINER MUST
BE DISPOSED OF IN A SAFE WAY

To avoid risks to man and the environment, comply with the instructions for use



OXIDISING



Nomix Enviro Limited
Portland Building, Portland Street, Staple Hill,
Bristol, BS16 4PS Tel: Bristol 0117 957 4574

CONTENTS: 25 kg

SAFETY PRECAUTIONS

(a) Operator Protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.

***WEAR SUITABLE PROTECTIVE WATERPROOF CLOTHING AND RUBBER BOOTS,**
when applying the product

WASH ALL PROTECTIVE CLOTHING THOROUGHLY after use
WASH HANDS AND EXPOSED SKIN before meals and after work
WHEN USING DO NOT EAT, DRINK OR SMOKE

IF YOU FEEL UNWELL seek medical advice (show label where possible)

(d) Storage and Disposal

***DO NOT RE-USE CONTAINER** for any purpose.

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM COMBUSTIBLE MATERIAL

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used
container.

KEEP LIVESTOCK OUT of treated areas for at least two weeks if poisonous weeds such
as ragwort are present.

Description

A total weedkiller in soluble powder form.

Uses

For killing all plant growth in areas such as drives, paths, asphalt etc. It is particularly effective in killing and preventing regrowth of perennial weeds, and generally effective on many species of perennial grasses. Atlacide persists in the soil for three to six months.

DIRECTIONS FOR USE

Timing of Application

Apply at any time during the growing season. Best results will be obtained from an application in spring or early summer. Do not apply before heavy rain.

Application

Half fill the spray tank, adding the required quantity of Atlacide. Whilst stirring well to obtain complete solution, add the remainder of the water.

Notes for Guidance

Do not apply near cultivated plants and trees or on slopes where run-off to cultivated plants may occur. A fire suppressant has been added to the sodium chlorate in this product to reduce the fire risk to acceptable limits for all sites except those with exceptionally high fire risks, for example oil installations, timber yards etc.

Rates of Use

Use	Rate/hectare (kg)	Volume of Water (Ltrs/ha)
Seedling Weeds	250	1800
Medium density weeds with high proportion of annuals	375	2700
Heavy growth of broadleaved weeds and grasses	500	3400

CONDITIONS OF SALE

The following shall form part of any contract of sale of this product whether sold by the manufacturer or a subsequent owner (The Seller).

1. The seller warrants that the product complies with the product specification prevailing at the date of sale which is obtainable from the Seller on request provided that (except to the extent any claim is in respect of personal injury or death) the said Seller's liability, for breach of this warranty is limited to the price of the products involved in the breach.

2. Except as aforesaid, all conditions and warranties statutory or otherwise and expressed or implied as to the quality of the product or its fitness for any purpose are expressly excluded.

3. Except as aforesaid the Seller shall be under any liability other than for personal injury or death whether in contract or in tort for any loss or damage arising out of or resulting from the use of the product.

4. The Seller shall in no event be liable for any loss or damage caused by the failure of any person to use the product in accordance with the instructions for use given by the Seller.

PRODUCT SAFETY INFORMATION

(This section does not form part of the product label under the Control of Pesticides Regulations 1986)

1. IDENTIFICATION

Preparation : ATCLACIDE SOLUBLE POWDER WEEDKILLER
Supplier : Nomix Enviro Ltd, Portland Building,
Portland Street, Staple Hill, Bristol BS16 4PS.
Tel. 0117 9574 574 Fax. 0117 9563 461

Chemical Emergency Agency Service (24 hr): Tel. 01865 407 333

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition : Sodium Chlorate (CAS No. 7775-09-9) 58% w/w
MAFF No : 00125

3. HAZARDS IDENTIFICATION

Xn: Harmful if swallowed.

O: Oxidising

On the basis of available information, this material is not expected to produce any significant adverse effects when recommended use instructions are followed.

4. FIRST AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Inhalation:

Remove patient to fresh air. If breathing is difficult give oxygen. Obtain medical attention.

Skin Contact:

Take off immediately all contaminated clothing. If spilled into boots, immediately remove boots and contaminated clothing. Wash immediately with plenty of soap and water if available. Wash contaminated clothing before re-use.

Eye Contact:

Rinse immediately with plenty of water. Obtain medical advice if symptoms persist.

Ingestion:

If ingested accidentally, rinse out mouth with water. Do not induce vomiting. Obtain medical attention immediately.

5. FIREFIGHTING MEASURES

Flammability:

Oxidizing agent - contains fire suppressant. Explosion risk negligible. However sodium chlorate can be detonated when intimately mixed with certain organic materials.

Procedure:

Isolate the hazard area and prevent entry. Wear self-contained positive breathing apparatus and full fire fighting protective clothing. Decontaminate emergency personnel when leaving fire area. Use as little water as possible. Dyke the area to prevent run-off. Care should be taken to prevent water used in fire-fighting from impregnating wooden floors with sodium chlorate solution since, after drying, further fires could be caused.

Extinguisher type:

Keep containers cool by spraying with water if exposed to fire. Extinguish preferably with foam (preferably alcohol foam), dry chemical, carbon dioxide (CO₂) or water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Use personal protection recommended in **Section 8**.

Environmental Precautions:

Contain liquid spills with sand bags or other means to prevent entry into drains.

Methods for cleaning up:

Absorb into earth or sand. Sweep up into containers for disposal. Dig up heavily contaminated soil and place in drums (See **Section 10** for types of containers and drums). Wash spill area with soap and water. Refer to **Section 13** for disposal of spilled material.

7. HANDLING AND STORAGE

Handling:

Good industrial practice in housekeeping and personal hygiene should be followed. Do not breathe gas, fumes, vapour, spray. When using do not eat, drink or smoke. Wash hands immediately after handling. Thoroughly clean equipment after use.

Storage:

Keep out of reach of children. Store separately from sources of ignition, flammable substances and combustible materials. Do not store on wooden pallets. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Keep container tightly closed. Protect from extremes of temperature. Minimum expected shelf life stored at ambient temperatures: 2 years.

8. EXPOSURE CONTROLS/PERSONAL

Occupational exposure limits: Not applicable

Respiratory Protection: No special requirement.

Hand Protection: Wear impermeable gloves such as Nitrile.

Eye Protection: Wear faceshield or chemical goggles when handling product, decontaminating equipment or clearing up spills.

Skin Protection: When applying, wear suitable protective coverall and rubber boots.

Wear trousers outside boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White powder
Odour : None noticeable
Flash point : 400°C - Oxidizing agent - contains fire suppressant.
Solubility in water : Disperses

10. STABILITY AND REACTIVITY

Conditions to avoid:

Avoid contact with combustible materials e.g. metal powder sawdust, solvents, oil and greases, ammonium compounds and acids.

Materials to avoid and Hazardous decomposition products:

Mixing sodium chlorate with acids can liberate toxic gases e.g. chlorine.

11. TOXICOLOGICAL INFORMATION

Formulation:

Oral LD50 (rat): >1200mg/kg. Harmful if swallowed.

Sodium chlorate can cause irritation to skin and mucus membranes.

Human Data:

Oral ingestion may produce abdominal pain, nausea, vomiting, diarrhoea, blueness, shortness of breath, unconsciousness and collapse.

12. ECOLOGICAL INFORMATION

Formulation: Harmful to aquatic organisms.

Sodium Chlorate:

Aquatic toxicity:

96 hr LC50 Rainbow trout (*Oncorhynchus mykiss*) = 4200 mg/l.

Biocummulation:

BCF (Bioaccumulation factor - calculated from water solubility) = 1.88

Does not bioaccumulate in fish.

Degradation:

Biological degradation half-life <70 days at 300C.

Soil degradation at 25 and 300C was 5 and 17 days respectively.

13. DISPOSAL CONSIDERATIONS

Send to special chemical waste disposal facility or burn only in special, controlled high temperature incinerator. **DO NOT BURN SACKS OR CONTAINERS.** Empty container completely and dispose of through a registered waste disposal contractor. Do not contaminate waterways, ponds or ditches with waste product or container.

14. TRANSPORT

Classification : Harmful, Oxidising

ADR Class/Conveyance class: 5.1 (Oxidizing)

Packing group : II

Proper shipping name : Sodium chlorate

UN No : 1495

15. REGULATORY INFORMATION

Hazard Symbol: Xn, Harmful
O, Oxidizing

Risk Phases: **R8 Contact with combustible material may cause fire**
R22 Harmful if swallowed
R52 Harmful to aquatic organisms

16. OTHER INFORMATION

The information contained within this Material Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other national health and safety legislation such as the Health and Safety at Work Act (1974) and the Control of Substances Hazardous to Health Regulations (1988).

Date of MSDS Review: 08.12.05 Supersedes MSDS Dated: 13.02.05

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