



Page: 1 of 5

Product Name Amicide Advance 700 Selective Herbicide

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Amicide Advance 700 Selective Herbicide

Product Code 0052

Product Type Group I Herbicide

Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address 103-105 Pipe Road Laverton North

Victoria 3026 Australia
Emergency Tel. 1800 033 498 (24hr Australia)

 Telephone/Fax
 Tel: +61 3 9282-1000

 Number
 Fax: +61 3 9282-1001

Recommended Use A non-volatile product for the control of broadleaved weeds in fallow before

direct drilling or sowing of cereals and pastures; and in cereal crops,

pastures, sugar cane, and in non-agricultural areas as per the Directions for

Use table on the label.

This is a PHENOXY HERBICIDE that can cause severe damage to susceptible crops

such as cotton, grapes, tomatoes, oilseed crops and ornamentals.

Other Information This MSDS describes, to the best of our knowledge, the properties of the

concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be

much less severe.

2. HAZARDS IDENTIFICATION

Hazard Classified as hazardous Classification HAZARDOUS SUBSTANCE.

NON-DANGEROUS GOODS.

 $\ensuremath{\mathsf{Hazard}}$ classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods

Code.

Risk Phrase(s) Classified as hazardous

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.

S2 Keep out of reach of children.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S46 If swallowed, seek medical advice immediately and show this container or

label.

Other Information Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Liquid

Characterization

Ingredients Name CAS Proportion

2,4-D present as 94-75-7 700 g/L

dimethylamine and monomethylamine

monomethyrami salts

Water 10-30 %

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.

If symptoms develop or persist, seek medical advice immediately.

Ingestion
If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26

(Aust). Make every effort to prevent vomit from entering the lungs by careful

Print Date: 8/05/2012 CS: 1.5.27





Page: 2 of 5

Product Name Amicide Advance 700 Selective Herbicide

Classified as hazardous

placement of the patient.

The above first aid instructions are mandated by the Commonwealth Department of Health and Ageing via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about one tablespoon) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED,

preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give

anything by mouth to a semi-conscious or unconscious person.

Skin If skin contact occurs, remove contaminated clothing and wash skin thoroughly

with water.

Remove contaminated clothing and launder before re-use.

Eve If in eyes, hold eyelids open and wash with copious amounts of water for at

least 15 minutes.

(Australia) on 13 11 26. Treat symptomatically. No specific antidote.

5. FIRE FIGHTING MEASURES

Suitable If involved in a fire, the product will not burn. Choose extinguishing media

Extinguishing Media to suit the burning material.

Hazards from Non-combustible.

Combustion May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or

Products exposed to extreme heat.

Special Protective Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Equipment for fire fighters

Advice to Doctor

Other Information STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such

as vermiculite).

Collect in sealed open top containers for disposal. On-site disposal of concentrate is not acceptable.

Dispose of at a landfill in accordance with local regulations.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Clean-up Methods -Large Spillages

Conditions for Safe

manufacturer.

arge Spillages manufacturer

Environmental Prevent from entering drains, waterways or sewers.

Precautions This product is a herbicide and spills can damage crops, pastures and

desirable vegetation.

Use earthen bunds or absorbent bunding to prevent spreading of spillage.

Place damaged containers in recovery bins (if available) and return to

7. HANDLING AND STORAGE

Precautions for Safe Do NOT spray in high winds.

Handling Do NOT contaminate dams, rivers or streams, or any other water bodies with

pesticide or used containers.

No special precautions are necessary when handling sealed containers. For personal protective equipment (PPE) and hygiene advice, refer Section 8. Store in the closed, original container in a cool, well ventilated area.

Storage Do not store for prolonged periods in direct sunlight.

Do not store near oxidisers.

Keep container tightly sealed and do not store with seed, fertilisers or

foodstuffs.

Tank Cleaning See label for detailed information on cleaning of spray equipment.

Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot soapy water or 1% solution of ammonia, followed by several

clear water rinses.

Other Information Do not use on or in situations where damage to susceptible crops or plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other

Print Date: 8/05/2012 CS: 1.5.27





5 Page: 3 of

Infosafe No™ 3NUMC Issue Date : May 2012 ISSUED by NUFARM

Product Name Amicide Advance 700 Selective Herbicide

Classified as hazardous

susceptible crop plants may result from direct application or drift. Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure standard for this product has been set, however, an exposure

standard has been set for 2,4-D acid (solid) at 10 $\ensuremath{\,\text{mg/m3}}\xspace$.

Engineering

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

Controls

Respiratory Do not inhale spray mist.

Protection

When preparing spray, wear PVC or rubber apron, elbow length PVC gloves and **Personal Protective**

Equipment

face shield. When using the prepared spray, wear face shield.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face

thoroughly with soap and water.

After each day's use, wash contaminated clothing and safety equipment.

Requirements **Concerning Special Training**

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid **Form**

Clear, brown liquid. **Appearance** Fish like odour. Odour

<0°C **Melting Point Boiling Point** 100°C

Solubility in Water Soluble in water.

1.24 **Specific Gravity**

9 - 10 (1% solution) pH Value

Vapour Pressure 2,4-D salts are non-volatile

20% (water) **Volatile Component**

Flammability Non combustible material. pKa is 2.73 for 2,4-D **Other Information**

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Incompatible Materials

Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D acid and largely de-activate the product and cause blockages in spray

equipment.

are followed.

The addition of a strong alkali such as caustic soda will cause release of

dimethylamine and monomethylamine vapour.

Polymerization

Hazardous

Ingestion

Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

No harmful effects are expected if the precautions on the label and this MSDS Toxicology

Information The components of the product are of low volatility and no adverse effects are Inhalation

expected from handling the concentrate.

The concentrate is considered harmful by inhalation by Worksafe Australia. A moderate hazard exists from inhalation of spray and care should be taken to

avoid inhalation of spray mists. Not a likely route of exposure.

Amounts swallowed incidental to normal handling procedures and use are not

expected to cause injury.

However, swallowing of large amounts may cause injury.

Print Date: 8/05/2012 CS: 1.5.27





5 Page: 4 of

Infosafe No™ 3NUMC ISSUED by NUFARM Issue Date : May 2012

Product Name Amicide Advance 700 Selective Herbicide

Classified as hazardous

Ingestion of the product in relatively large amounts can result in headache,

nausea, lethargy, motor weakness and incoordination.

Prolonged contact with the concentrate may cause irritation. Skin

Prolonged contact of the concentrate with skin will result in absorption of

some 2,4-D which can be harmful.

The concentrate will cause irritation of the eyes. Eye

Prolonged contact with the concentrate may cause damage to the eye.

Chronic Effects Chronic Overexposure: Repeated absorption of relatively large amounts of 2,4-D

presents a risk to the liver and kidneys.

Acute Toxicity - Oral LD50 (rat) greater than 300 mg/kg and less than 2000 mg/kg

Acute Toxicity -

Dermal

LD50 (rabbit) >2000 mg/kg

Acute Toxicity -

LC50 (rat) (4hr) > 5.15 mg/l (aerosol)

Inhalation

Eve Irritation The product is a severe eye irritant.

Mild irritant **Skin Irritation**

Skin Sensitisation The product is a skin sensitiser.

In trials using 2,4-D as a drug, studies on volunteers have shown that doses **Other Information**

of between 5 and 36 mg/kg body weight do not cause any acute toxic effects. Formulated 2,4-D products can be absorbed by ingestion, inhalation (spray mist) and through the skin. Studies of users (sprayers) has shown that absorption through the skin is the most common route. When used with good agricultural spraying practice and good personal hygiene, absorption of 2,4-D

is very low.

2,4-D does not accumulate in the body; a single dose of 2,4-D is rapidly

excreted (in a few days), mainly in the urine.

The Australian Acceptable Daily Intake (ADI) for 2,4-D for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.0 mg/kg/day, the level determined to show no effects during long

term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety and

Environmental Health, 'ADI List', December 2011).

12. ECOLOGICAL INFORMATION

Half life in soil is typically 7 days. Persistence /

Loss from soil is principally by microbial degradation. Degradability

Mobility Rapid degradation in soil prevents significant downward movement under normal

conditions.

Known Harmful 2,4-D products do not appear to pose any threat to birds.

2,4-D products do not appear to pose any threat to fish or other aquatic Effects on the

organisms other than in very high concentrations. Environment

Other Precautions Do not contaminate dams, waterways or sewers with this product or the

containers which have held this product.

Spray drift can cause damage, read the label for more information. **Environ. Protection**

Acute Toxicity - Fish LC50 (96hr) for rainbow trout is ~100 mg/l.

Acute Toxicity -

Daphnia

LC50 (48hr) for 2,4-D amines is 184 mg/l.

Birds: Not toxic to birds. LD50 for bobwhite quail is 500 mg/kg

Acute Toxicity -Bees: Not toxic to bees. LD50 94 µg/bee. Other Organisms

Not inhibitory in sewage system, 2,4-D is rapidly biodegraded. **Sewage Treatment**

13. DISPOSAL CONSIDERATIONS

DO NOT dispose of undiluted chemicals on site. Ideally, the product should be **Product Disposal**

used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals

(ChemClear®).

Do not use this container for any other purpose. **Container Disposal**

Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point.

Print Date: 8/05/2012 CS: 1.5.27



CS: 1.5.27

Page: 5 of 5

Product Name Amicide Advance 700 Selective Herbicide

Classified as hazardous

If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

QuikPour containers: DO NOT separate inner bladder from outer carton. Single rinse and add rinsings to the spray tank. Puncture outer carton and bladder. Follow recycling instructions for other containers as per the label. DO NOT burn empty containers or product.

14. TRANSPORT INFORMATION

Transport It is good practice not to transport agricultural chemical products with

Information food, food related materials and animal feedstuffs.

Storage and Considered non dangerous for transport by the Australian Code for the

Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule S6

Packaging & POISON

Labelling KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Harmful, Irritant

Other Information This product is registered with the Australian Pesticides and Veterinary

Medicines Authority (APVMA). APVMA product number: 66167.

16. OTHER INFORMATION

Date of preparation Revised 08/05/2012

or last revision of This S

or last revision of

This SDS replaces document dated February 2012.

MSDS

ContactNormal Hours:Mrs Kathleen MarshPhone: +61 3 9282 1000Person/PointAfter Hours:Shift SupervisorPhone: 1800 033 498

Revisions The SDS was reviewed. Minor changes were made to the information.

Highlighted See sections 9 - pH value included..

...End Of MSDS...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.

Print Date: 8/05/2012 CS: 1.5.27