

Page 1 of 4

Infosafe No. 3NU73 Issue Date: November 2005 ISSUED by NUFARM

Product Name: ASSOCIATE Herbicide

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name ASSOCIATE Herbicide

Product Code 0095

Product Use For the control of certain brush and broadleaf species in native pastures,

rights of way and commercial and industrial areas and for the control of certain broadleaf weeds in winter cereal crops, grass pastures and pasture renovation as

per the Directions for Use table on the label.
NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address 103-105 Pipe Road Laverton North

Victoria 3026 Australia

Emergency Tel. 24hr 1800 033 498

Telephone Tel: (03) 9282-1000 Fax: (03) 9282-1001

Number/Fax

Company Name

Product Type Group B Herbicide

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. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Solid

Characterization

Ingredients Name CAS Proportion

Metsulfuron Methyl74223-64-6600g/kgSilica, amorphous precipitated112926-00-820g/kgKaolin clay1332-58-7155g/kgOther ingredients (non-hazardous)Balance

3. HAZARDS IDENTIFICATION

Other Information Poisons Schedule: Not Scheduled

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.

If symptoms develop or persist, seek medical advice.

Ingestion Rinse mouth and then drink plenty of water.

If vomiting occurs, give more water to drink to assist dilution.

Do not give anything by mouth to a semi-conscious or unconscious person.

Skin Wash affected areas thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

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

least 15 minutes.

Seek medical advice if irritation develops or persists.

(Australia).

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media If involved in a fire, the product will not burn. Choose extinguishing media to

suit the burning material.

Hazardous Non-combustible.

Combustion Products If involved in a major fire, could evolve oxides of carbon, nitrogen or sulfur.

Protective Equipment Breathable air apparatus must be worn when fighting a fire in which this product

is involved.

6. ACCIDENTAL RELEASE MEASURES



Page 2 of

Infosafe No. 3NU73 Issue Date: November 2005 ISSUED by NUFARM

Product Name: **ASSOCIATE Herbicide**

Not classified as hazardous according to criteria of NOHSC

Spills & Disposal Recover the product by sweeping up or vacuuming without raising dust.

Collect spilled material and waste in sealable open-top type containers for

disposal.

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

7. HANDLING AND STORAGE

Handling Avoid generating dusts while handling the product and mixing.

Store in the closed, original container in a dry, well ventilated area, as cool Storage

as possible.

Do not store for prolonged periods in direct sunlight.

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

foodstuffs.

Other Information 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 washed

with chlorine bleach solution as directed on the label. Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name **National Exposure STEL TWA**

Standards

mg/m3 ppm mg/m3 ppm **Footnote**

10 Silica, amorphous precipitated Kaolin clay 10

Personal Protective

It is good practice to wear suitable personal protective equipment (PPE). **Equipment** When opening the container, preparing spray and using the prepared spray wear

cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length

PVC gloves and goggles.

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

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

NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials. By 1st September, 2005

all users must have received such training.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Off-white to tan granules

Solubility in Water Disperses in water.

 $3.3 \times 10-7 \text{ mPa}$ (25°C, metsulfuron methyl) Vapour Pressure

Partition co-efficient, Kow Log P is 0.0018 (pH7, 25°C for metsulfuron methyl)

n-octanol/water

Flammability Non combustible material.

Other Information pKa is 3.8 (20°C, metsulfuron methyl)

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hydrolyses at pH <7.

Hazardous Hazardous polymerisation is not possible.

Polymerization

Hazardous Reaction Keep away from strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Inhalation Not a likely route of exposure when handling the concentrate.

May cause irritation to mucous membranes.

Ingestion Low toxicity.

However, swallowing large amounts of concentrate may cause nausea and vomiting.



Page 3 of

Infosafe No. 3NU73 Issue Date: November 2005 ISSUED by NUFARM

Product Name: ASSOCIATE Herbicide

Not classified as hazardous according to criteria of NOHSC

Skin May irritate the skin.

Eve The concentrate may cause irritation of the eyes.

Chronic Effects Based on available data, repeated exposures are not anticipated to cause

additional significant adverse effects.

>5000 mg/kg for metsulfuron methyl **Acute Toxicity - Oral** LD50 (rat)

Acute Toxicity -

LD50 (rabbit) >2000 mg/kg for metsulfuron methyl

Acute Toxicity -

LC50 (rat) (4hr) > 5 mg/l for metsulfuron methyl

Inhalation

Dermal

Eye Irritation Mild eye irritant. **Skin Irritation** Mild skin irritant.

Skin Sensitisation Product is not a skin sensitiser.

Other Information The Australian Acceptable Daily Intake (ADI) for metsulfuron methyl 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 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, 'ADI List', TGA, September

2005).

12. ECOLOGICAL INFORMATION

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

which have held this product.

Environ. Protection Spray drift should be avoided, read the label for more information.

Do NOT apply, drain or flush equipment on or near desirable trees or other plants, or on an area where their roots extend, or in locations where the

chemical may be washed or moved into contact with their roots.

Persistence /

Half life in soil is typically 52 days.

Degradability

Acute Toxicity - Fish LC50 (96 hr) for rainbow trout and bluegill sunfish is >150 mg/l for metsulfuron

methvl

Acute Toxicity -

EC50 (48 hr) for daphnia is >120 mg/l for metsulfuron methyl.

Daphnia

Acute Toxicity - Other The following data is for the active ingredient, metsulfuron methyl.

Birds: Not toxic to birds. LD50 for mallard duck is >2510 mg/kg **Organisms**

LD50 for bobwhite quail is >5620 mg/kg

Bees: Not toxic to bees. LD50 >44.3 $\mu g/bee$.

13. DISPOSAL CONSIDERATIONS

Product Disposal On site disposal of the concentrated product is not acceptable.

Ideally, the product should be 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 (ChemCollect).

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

Triple or preferably pressure rinse containers before disposal. Add rinsings to

the spray tank.

Dispose of in accordance with local regulations.

If not recycling, puncture or shred and bury containers in local authority

landfill.

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable

vegetation and tree roots.

Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

U.N. Number None Allocated **DG Class** None Allocated Hazchem Code None Allocated **Packing Group** None Allocated



Page 4 of

Infosafe No. 3NU73 Issue Date: November 2005 ISSUED by NUFARM

Product Name: ASSOCIATE Herbicide

Not classified as hazardous according to criteria of NOHSC

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

of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled

Packaging & Labelling

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

AICS (Australia) All of the components in this product are listed on the Australian Inventory of

Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

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

...End Of MSDS...