



SAFETY DATA SHEET
in accordance with Safe Work Australia

ABRADE ABRASIVE BARRIER INSECTICIDE

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Identifier	ABRADE ABRASIVE BARRIER INSECTICIDE
Active Constituent	450g/L AMORPHOUS SILICA
Other means of Identification	Agricultural herbicide. Grow Choice product code number: AVPMA registered number:
Recommended use of the chemical and restrictions on due	For the control of Helicoverpa punctigera and H. armigera in cotton, Brassica vegetables and Capsicums and Diamond back moth in Canola and Brassica vegetables. Also for the control of various stored insect pests in grain bins, silos and storage facilities, food processing and warehousing facilities as per the Directions for Use.
Suppliers name, address and phone number:	Grow Choice Pty Ltd 113 Fitzroy Street TAMWORTH NSW 2340 Phone: 02 6766 3979 1800 817 676 Fax: 02 6766 2922 Email: admin@growchoice.com.au
Emergency phone number:	In Case Of Emergency Dial 000
Poisons Information Centre	Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax:+61 2 9845 3597 http://www.chw.edu.au/poisons/contact.htm

SECTION 2: HAZARDS IDENTIFICATION (continued on page 2)

- Classified as **NON HAZARDOUS** in accordance with the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004) 3rd Edition and the Globally Harmonized System of Classification and Labelling of Chemicals (the GHS).
- Considered **non-dangerous** for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)
- Considered **NON DANGEROUS** for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)

Classification of hazardous chemical

No classification for this product under SWA or GHS.

Signal Word	None, not classified
GHS Symbols	None, not classified
General Precautionary Statements.	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use
Hazard Statements	None, not classified
Storage	Store apart and away from animal and human foodstuffs, herbicides and pesticides. Store in original container in a dry place out of direct sunlight.
Disposal	Dispose of contents and container in accordance with local, regional and national regulations.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical ingredients:	Component	CAS No	Concentration %
	Amorphous silica	7631-86-9	90%
CAS number and other unique identifiers:	Other ingredients, including water	(non-hazardous)	balance
Concentration of ingredients:			

SECTION 4: FIRST AID MEASURES

In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist. Take this SDS and or DFU/Label with you or when calling the Poisons Information Centre.

Description of first aid measures

Inhalation	No special measures required.
Skin contact	Wash with water and soap as a precaution.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, seek medical attention.
Ingestion	Clean/rinse mouth with water and drink afterwards plenty of water.
Most important symptoms and effects, both acute and delayed	The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.
Indication of any immediate medical attention and special treatment needed	None known.

SECTION 5: FIRE FIGHTING MEASURES (continued on page 4)

Suitable extinguishing media	Dry chemical, CO ₂ , water spray or alcohol foam. Do not use high volume water jet for safety reasons.
Specific hazards arising from the chemical	This product is not flammable.
Special protective equipment and precautions for fire fighters	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.
Hazchem Code	N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	In case of spillage it is important to take all steps necessary to: Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove any sources of ignition. When dealing with spills do not eat, drink or smoke
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equipment and emergency procedures	and wear protective clothing and equipment. Keep people and animals away. Prevent spilled material from entering drains or watercourses.
Environmental precautions	Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	Reposition any leaking containers so as to minimise leakage. Dam and absorb spill with an absorbent material (eg sand or soil). Shovel the absorbed spill into drums. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately.). Clean contaminated floors and objects thoroughly, observing environmental regulations. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.
6.4 Reference to other sections	Information regarding safe handling see section 7. Information regarding personal protective equipment see section 8. Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear appropriate PPE (refer Section 8). Do not spray under high wind conditions. Hygiene measures: When using products, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly with soap and water after use and before eating, drinking, smoking/using tobacco, chewing gum, using the toilet or applying cosmetics. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Avoid contact with eyes and skin.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children, unauthorised persons and animals. Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food. Store out of direct sunlight and extreme temperature. Always read the label and any attached leaflet before use.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued on page 4)

Appropriate engineering controls	No special requirements. Product is used outdoors Control process conditions to avoid contact. Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration below the exposure limits.
Exposure controls Occupational exposure controls	General industrial hygiene practice. MAK (Maximal Arbeitsplatzkonzentration): 4 mg/m ³ .
Personal protective equipment (PPE):	When opening the container, preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC chemical resistant and face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and optional once chemical is prepared for use, elbow length PVC chemical resistant and face shield or goggles if protected from spray drift/contamination. Face and Eye Protection: Face shield or goggles. Clothing: Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat. Gloves: Elbow-length chemical resistant PVC gloves. Respiratory: If airborne concentrations are likely to exceed the exposure standards above or if exposed to dust, an AS/NZS 1715/1716 approved respirator should be worn.

Recommended to use Australian and New Zealand Standard PPE:
Overalls: AS 3765, Clothing for protection against Hazardous chemicals
Gloves: AS/NZS 2161, Industrial safety gloves and mittens (not electrical and medical gloves)
Goggles and face shield As/NZS 1337, Eye protectors for industrial applications.
Footwear: AS/NZS 2210, Occupational protective footwear
Respirators: AS NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices
AS/NZS 1716, Respiratory Protective Devices

**Requirements
Concerning
Training**

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form	Solid.
Colour	White.
Odour	Odorless
Odour Threshold	No information
pH:	5-8 (5% in H ₂ O)
Melting point/range:	>1000°C
Boiling point/range:	n.a.
Flash point:	does not flash
Evaporation Rate:	n.a.
Flammability:	n.a.
Explosion limits:	n.a.
Vapour pressure:	n.a.
Vapor density:	n.a.
Relative density:	400-700 g/L
Water solubility:	practically
Partition coefficient (n-)	n.a.
Auto ignition temperature:	n.a.
Decomposition	n.a.
Viscosity:	n.a.
Combustion/explosion	not hazardous
Oxidizing properties:	None

SECTION 10: STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Direct sunlight.

Incompatible Materials: No information available

Hazardous Decomposition Products: No information available.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity:

Information on toxicological effects

Acute toxicity	Amorphous silica (CAS 7631-86-9) LD50/oral/rat = 10000 mg/kg. LCLO/inhalation/4h/rat = 139 mg/m ³ . LD50/dermal/rabbit > 5000 mg/kg.
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Skin corrosion/irritation	No skin irritation.
Serious eye damage/eye irritation	No eye irritation.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Animal testing did not show any carcinogenic effects.
Germ cell mutagenicity	Animal testing did not show any mutagenic effects.
Reproductive toxicity	Animal testing did not show any hazardous effects.
Specific target organ toxicity (single exposure)	no data available
Specific target organ toxicity (repeated exposure)	no data available
Aspiration hazard	no data available
Human experience	This product has no known adverse effect on human health.

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity:

Toxicity	Amorphous silica (CAS 7631-86-9) LC50/96h/fish > 10000 mg/l. EC50/24h/daphnia = 10000 mg/l. EC50/72h/algae > 10000 mg/l.
Persistence and degradability	No data available.
Bio accumulative potential	Does not bio accumulate. Accumulation in aquatic organisms is unlikely. Accumulation in terrestrial organisms is unlikely.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No information available.
Other adverse effects	No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of product	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 (ChemClear®).
Disposal of Container	Do not use this container for any other purpose. Triple rinse containers; add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local 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. If recycling, replace cap and return clean containers to recycler or designated collection point. 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.

SECTION 14: TRANSPORT INFORMATION

General Transport Information	It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.
Land	Considered non-dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)

SECTION 15: REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule: Not scheduled

SECTION 16: ANY OTHER RELEVANT INFORMATION

Review
This Safety Data Sheet (SDS) was completed 28 January 2017 and replaces MSDS dated 06/12/10.

Acronyms:

AVPMA: Australian Pesticides and Veterinary Medicines Authority.
GHS: Globally Harmonised system of Classification and Labelling of chemicals
HSIS: Hazardous Substances Information System
NOHSC: National Occupational Health and Safety Commission
CAS No.: unique numerical identifier assigned by Chemical Abstracts Service (division of the American Chemical Society)
STEL Exposure standard - short term exposure limit.
AS/NZS: Australian Standards and New Zealand Standards for Personal protective equipment
ADI: Acceptable Daily Intakes For Agricultural And Veterinary Chemicals
ADG: Australian Dangerous Goods
IMDG: International Maritime Code of Dangerous Goods
IATA: International Air Transport Association

End of SDS

DISCLAIMER:

This SAFETY DATA SHEET has been developed according to the Work Health and Safety Regulations (WHS Regulations) Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals December 2011. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this SAFETY DATA SHEET is to describe product in terms of their safety requirements. Grow Choice Pty Ltd makes no representation of merchantability, fitness for a particular purpose of application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product. The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with Relevant Federal, State and Local