

Safety Data Sheet

GHS Hazardous Chemical. Not Dangerous Goods.

Indole Butyric Acid (IBA) 0.1-3% in Talc Dust

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION

Product Name:	IBA (in Talc) Dust I.B.A. Root-Strike I.B.A. / N.A.A. Root-Strike Induce 1; Induce 2; Induce 3		
Other Names:	3-Indole Butyric Acid in a Talc powder; IBA in Talc. Root promoting formulation.		
Product Code(s):	I.B.A. Root-Strike I.B.A. / N.A.A. Root-Strike Induce 1: 30g	1kg, 5kg, 20kg 1kg, 5kg, 20kg Induce 2: 30g	Induce 3: 30g
USE:	Plant propagating hormone. A powder based formulation of Indole Butyric Acid for improving the percentage of root strike on most plant cuttings. The "Induce" range covers: softwood, semi-hardwood and hardwood cuttings.		
COMPANY DETAILS:	Kendon Chemical & MNFG. Co. Pty Ltd A.B.N. 27 004 281 967 8-10 Abbot Street Fairfield, Victoria 3078 Phone: 03 9497 2822 Fax: 03 9499 7225		
Emergency Telephone No:	Business Hrs After Hrs	03 9497 2822 0418-530-461 (General Manager)	

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: **Root-Strike** is a fine, beige powder. The **Induce** range are coloured by a blue, yellow or green dye. The dust may cause drying and mechanical irritation.

Target Organs: Eye, Skin, Lungs

Dangerous Goods Information:

Not Dangerous Goods according to the ADG Code, IMDG Code, nor IATA Regs.

GHS Hazardous Chemical Information:

Classified as a Hazardous Chemical to the Australian GHS Criteria.

Signal Word: **DANGER**

Classification: Carcinogenicity Category 1A

Hazard Statements: May cause cancer by inhalation
(from the 0.1-1% Respirable Crystalline Silica impurity).

Precautionary Statements

- **Prevention**
 - Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.
 - Wear protective gloves / eye protection.
 - [In case of inadequate ventilation] wear respiratory protection.
 - Wash thoroughly after handling.
- **Response**
 - IF exposed or concerned: Get medical advice/attention.
- **Storage**
 - Store locked up.



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- Disposal Dispose of contents/container in accordance with Local / State or Territory / National / international regulations

Poison Schedule: Not Scheduled

Signal Word -

ACUTE HEALTH EFFECTS

Swallowed: May be harmful if swallowed. May cause irritation to the mouth, tongue, lips and throat. Swallowing large amounts may cause pains in the stomach causing nausea and vomiting.

Eye: Dust may cause physical irritation of the eyes.

Skin: Dust may cause drying and irritation of the skin and possible dermatitis.

Inhaled: Dusts may cause dryness and physical irritation to the nose, throat and respiratory system with effects including coughing and sneezing.

Chronic: Prolonged or repeated skin contact may lead to drying of the skin and dermatitis. Prolonged or repeated inhalation may cause Talcosis and Silicosis, both causing a pulmonary fibrosis in the lungs, which may in turn lead to severe and permanent damage to the lungs with shortness of breath.

The 0.1-1% Respirable Crystalline Silica impurity may cause cancer by inhalation.

Precautions: Do not breathe dust. Avoid contact with skin and eyes. Wear gloves and eye/face protection. After contact with eyes, rinse immediately with water and seek medical advice. After contact with skin, wash immediately with soap and water.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
4-(3-Indolyl) Butanoic Acid	0.1-3.0% w/w	133-32-4
1-Naphthalene Acetic Acid #	0.1% w/w	86-87-3
Talc (Magnesium Silicate Hydrate Mineral) *	>90%	14807-96-6
Respirable Crystalline Silica (impurity in the Talc)	0.1-1%	14808-60-7
Dye @	<0.5%	Confidential

* The Talc contains no Asbestos fibres.

NAA is only in products as indicated on the label (with N.A.A. in the product name)

@ "Induce" range only – a different colour for each Induce product

4. FIRST AID MEASURES

Swallowed: If swallowed, DO NOT induce vomiting. Give a glass of milk or water. Seek medical assistance immediately.

Eye: If dust enters the eyes, immediately flush with plenty of water for 15 minutes, ensuring eyelids are held open. If irritation persists seek medical attention.

Skin: If material contacts the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available. If symptoms develop seek medical attention.

Inhaled: Move victim to fresh air. Open all doors, windows and/or vents. If symptoms develop transport to hospital or doctor.

First Aid Facilities: Eye wash fountain, safety shower and normal wash room facilities nearby.

Advice to Doctor: Treat symptomatically. Contact the Poisons Information Centre 13 1126.

Breathing of this >90% Talc and <1% Crystalline Silica containing dust, may aggravate asthma and inflammatory or fibrotic pulmonary disease, and may cause cancer by inhalation (due to the <1% R.C. Silica).

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5. FIRE-FIGHTING MEASURES

Fire / Explosion Hazard: Not combustible nor an explosion hazard due to the high Talc content.

Extinguishing Media: Use extinguishing media according to the surrounding fire situation.

Procedures: If safe to do so, move undamaged containers from fire area. Contain any fire water run-off.

Hazardous Decomposition Products: No significant amounts of decomposition products from the <4% organic acid content.

Protective Equipment: Fire fighters to wear Self-Contained Breathing Apparatus (SCBA) if exposed to Talc dust clouds or products of decomposition from surrounding materials. Protective clothing is also recommended.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Ventilate the area. Keep unnecessary people away from spill area. Wear protective equipment. Sweep or shovel up, avoid spreading the dust.

Containment & Cleanup: Prevent the powder from entering into drains and waterways. Collect and seal in properly labelled containers for disposal. See Section 13 for Disposal Considerations

7. HANDLING AND STORAGE

Handling: Avoid dust cloud formation. Avoid contact with skin and eyes. Do not inhale the dust.

Storage: Store in a cool place and out of direct sunlight. Store away from sources of heat. Keep containers closed, when not using the product. Store in original packages as approved by manufacturer.

Store & handle in accordance with Work Health & Safety Regulations or Occupational Health & Safety Regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Indole Butyric Acid

No Exposure Standard available

1-Naphthalene Acetic Acid

No Exposure Standard available

Talc (containing no Asbestos fibres)

2.5 mg/m³ TWA

As Inspirable Dust

Quartz (Crystalline Silica)

0.05 mg/m³ TWA

As Respirable Dust

Personal Protection Equipment

Avoid skin, eye and inhalation contact.

GLOVES: Wear impervious gloves (e.g. Plastic or Rubber).

EYES: Chemical goggles, or safety glasses with side shields should be worn where dust clouds are formed.

RESPIRATORY PROTECTION: Avoid breathing of dusts. If natural or local exhaust ventilation is not adequate, select and use a P1 dust respirator in accordance with AS/NZS 1715/1716.

CLOTHING: Wear overalls and long sleeved clothing, apron to prevent skin contact.

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, then the use of a local exhaust ventilation system is recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Fine, beige powder except for Induce range which has colour dye. Induce 1 – Blue Induce 2 – Yellow Induce 3 - Green
Boiling Point	Not applicable
Melting Point:	Not applicable
Vapour Pressure:	Not available
Specific Gravity:	2.7 approx.
Solubility:	The Sctive ingredient is slightly soluble in water (<0.5 g/L) The Talc carrier is insoluble in water.
Flash Point:	Not applicable (>90% Talc powder)
Flammability Limits:	Not applicable
Formula & MW (Active):	(C ₁₂ -H ₁₂ -N)-(CH ₂) ₃ -C(=O)-O.Na MW: 225.2 (for IBA)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable in closed containers kept in cool conditions.
IBA and NAA degrade on exposure to sunlight or UV light.

Conditions to Avoid: Heat and flames. Avoid exposure to light.

Incompatible Materials:

The organic ingredients (<4%) are incompatible with strong Alkalis, Acids and Oxidizing Agents.

Hazardous Decomposition Products: No significant decomposition products from the <4% organic content.

When heated >200°C Oxides of Nitrogen (NO_x) and various decomposition Hydrocarbons will be released.

Hazardous Reactions: None known. The inert Talc will minimise (dilute) the hazardous reaction ability of IBA.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Overall Product: The dust may cause drying and irritation. Not classified as a GHS Hazardous Chemical.
No overall data available. See below for Toxicological Data for the ingredients in this product.

Indole Butyric Acid CAS 133-32-4 (as 100%):

Acute Oral Toxicity LD₅₀ (rat): >500 mg/kg (ChemID, 1953)

Acute Oral Toxicity LD₅₀ (mouse): 100 mg/kg (ChemID, 1977)

Eye Irritation (rabbit): Irritation

Skin Irritation (rabbit): Irritation

Note: Present in the product at <3% so none of these effects are relevant.

1-Naphthalene Acetic Acid CAS 86-87-3 (as 100%):

Acute Oral Toxicity LD₅₀ (rat): 1000 mg/kg (ChemID)

Acute Oral Toxicity LD₅₀ (mouse): 743 mg/kg

Eye Irritation (rabbit): Irritation

Skin Irritation (rabbit): Irritation

Note: Present in the product at 0.1% so none of these effects are relevant.

Talc CAS 14807-96-6 (as 100%)

Acute Oral Toxicity LD₅₀ (rat): >2000 mg/kg

Acute Dermal Toxicity LD₅₀ (rabbit): >2000 mg/kg

Eye Irritation (rabbit): May cause physical eye irritation

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Skin Irritation (rabbit):

May cause physical skin irritation

Respirable (<7µm) Talc may cause Talcosis, a pulmonary fibrosis which may in turn lead to severe and permanent damage to the lungs with shortness of breath.

Respirable Crystalline Silica CAS 14808-60-7 (0.1-1% impurity in the Talc):

Excessive exposure to Respirable (<7µm) Crystalline Silica may cause Silicosis, a pulmonary fibrosis which may in turn lead to severe and permanent damage to the lungs with shortness of breath.

Respirable (<7µm) Crystalline Silica is classified as a Group 1 Carcinogen to humans by inhalation by the WHO International Agency for Research on Cancer (IARC).

Classified by Safe Work Australia as a Carcinogen Category 1A:

May cause cancer by inhalation (from the 0.1-1% Respirable Crystalline Silica impurity in Talc).

12. ECOLOGICAL INFORMATION

Overall Product: Not classified as a GHS Hazardous Chemical.

This substance is not likely to be harmful to insects or aquatic organisms.

Avoid contaminating waterways.

No overall data available. See below for data for the ingredients in this product.

Indole Butyric Acid CAS 133-32-4 (as 100%):

Acute Aquatic Fish Toxicity LC50 (Rainbow Trout, 96hrs) : >90 mg/L

Acute Aquatic Daphnia Toxicity LC50 (Daphnia Magna, 48hrs) : 57 mg/L

Note: Present in the product at <3% so none of these effects are relevant.

1-Naphthalene Acetic Acid CAS 86-87-3 (as 100%):

Acute Aquatic Fish Toxicity LC50 (BlueGill, 96hrs) : 82 mg/L

Acute Aquatic Fish Toxicity LC50 (Rainbow Trout, 96hrs) : 57 mg/L

Note: Present in the product at 0.1% so none of these effects are relevant.

Talc CAS 14807-96-6 (as 100%)

Not environmentally hazardous. It is a natural mineral.

13. DISPOSAL CONSIDERATIONS

Disposal: In accordance with the Local, State & Federal EPA waste regulations.

Full or Part Full containers:

Advise its Respirable Talc dust and Respirable Crystalline Silica hazardous nature.

Normally suitable for industrial landfilling by an EPA approved facility.

For Single containers with trace residues, rinse them out to sewer, write over label "cleaned" and dispose of the container to the domestic waste or industrial waste collection.

Note: Processing, use or contamination of this product may change the waste management options.

Empty Containers: The unclean container must also be handled as hazardous waste until cleaned.

They can be recycled after cleaning.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); or by air according to the IACO (IATA Regulations), or by sea according to the IMO (IMDG Code).

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UN Number:	Not Dangerous Goods	Proper Shipping Name:	Not Applicable
Dangerous Goods Class:	Not Applicable	Subsidiary risk:	Not applicable
Packing Group:	Not Applicable	Hazchem Code:	Not Applicable

Dangerous Goods - Emergency Response Guides

ANZ - ERG Guide (2021) & HB76 – IER Guide (2010): Not Applicable

Marine Pollutant to IMDG Code: No

15. REGULATORY INFORMATION

GHS Hazardous Chemical Information:

Classified as a Hazardous Chemical to the Australian GHS Criteria.

Signal Word

DANGER

Classification:

Carcinogenicity Category 1A

Hazard Statements:

H351i May cause cancer by inhalation
(from the 0.1%-1% Respirable Crystalline Silica impurity).



Precautionary Statements

- Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves / eye protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P264 Wash thoroughly after handling.

- Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

- Storage

P405 Store locked up.

- Disposal

P501 Dispose of contents/container in accordance with Local / State or Territory / National / International regulations

Not a GHS Environmentally Hazardous Chemical to the UN Criteria.

Not Dangerous Goods.

SUSMP Schedule Poison: Not Scheduled

Australian Inventory of Industrial Chemicals: All ingredients are on the AIIC.

APVMA Approval Nos: Kendon I.B.A Root-Strike Plant Propagating Hormone **Product No.** 49328
Induce No. 1 **Product No.** 49329; Induce No. 2 **Product No.** 49330; Induce No. 3 **Product No.** 49331

16. OTHER INFORMATION

SDS Dates and Revisions

SDS Original Preparation Dates : Aug 1999; Sept & Oct 2006; Sept 2010, May 2015, 15 May 2019
SDS Latest Revision Date : 9th March 2023
Sections Changed in Latest Revision : Changes in S1, 2, 3, 4, 8, 10, 11, 13, 14, 15, 16.

Contact Point: phone: (03) 9497 2822 email: CStory@Kendon.com.au

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SDS APPROVED: Kendon Chemical & MNFG

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Acronyms Used

ADG Code	Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road & Rail
Safe Work Australia	Safe Work Australia (SWA) (since 2009). Administers ASCC & NOHSC documents.
HCIS	Hazardous Chemicals Information System at: http://hcis.safeworkaustralia.gov.au/
NZ EPA HSNO CCID	Environmental Risk Management Authority New Zealand, HSNO Chemical Classification Information Database. https://www.epa.govt.nz/database-search/
e-ChemPortal	Global Portal to Information on Chemical Substances https://www.echemportal.org/echemportal/substance-search
ECHA	European Chemicals Agency at http://echa.europa.eu/
ECHA RSD	ECHA Registered Substances Database (with SIEF results of chemical reviews) http://echa.europa.eu/information-on-chemicals/registered-substances
ECHA C&LID	ECHA Classification & Labelling Inventory Database http://echa.europa.eu/information-on-chemicals/cl-inventory-database
AICIS	Australian Industrial Chemicals Introduction Scheme which manages the Australian Inventory of Industrial Chemicals (AIIC)
CAS No.	Chemical Abstracts Service Registry Number
UN No.	United Nations Dangerous Goods Number
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons

SDS Code Used	This SDS has been prepared according to the Australian SWA Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals July 2020 (122 page pdf) www.safeworkaustralia.gov.au/doc/model-code-practice-preparation-safety-data-sheets-hazardous-chemicals .
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This SDS summarises to the best of our knowledge the health and safety hazard information on the product and how to safely handle and use the product in the workplace, and should not be construed as guaranteeing specific technical properties. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Since methods and conditions are beyond our control, in inappropriate contexts we do not accept liability for any damages resulting from the use of, or reliance on, this information.

Reviewers Initials / Yr / Mth: JS2303