



MATERIAL SAFETY DATA SHEET

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Issued: August 2011

Section 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Hyper-STIK**
Non-Ionic Sticker-Spreader

Company: MILLER CHEMICAL & FERTILIZER (AUSTRALIA) PTY LTD.
Address: Level 3 / 141-149 Ifould Street,
Adelaide, SA, 5000
ACN/ABN: 086 969 628
ACN/ABN: 086 969 628
Telephone Number: 08 8290 9300 **Fax Number:** 08 8290 9350
Full Product Name: Miller Hyper-STIK Non-Ionic Sticker-Spreader.
Other Names: di-1-p-menthene, Pinolene (Pinolene is a terpenic polymer).
Use: Hyper-STIK Non Ionic Sticker-Spreader for agricultural chemicals.

DISTRIBUTED BY: Agspec Australia Pty Ltd
Address: Lot 1 Wandilo Road,
Mt Gambier, SA, 5291
ACN/ABN: 40 109 573 953
Telephone Number: 0427 490 551 **Fax Number:** 08 8125 6555
Emergency Contact: 0457 733 763

Section 2. HAZARDS IDENTIFICATION

Not classified as hazardous according to criteria of ASCC.
Not classified as a Dangerous Good according to the ADG Code

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:	PROPORTION
CHEMICAL	
di-1-p-menthene	452 g/L
Other ingredients determined not to be hazardous	balance

Section 4. FIRST AID MEASURES

FIRST AID

Ingestion: If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.

Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor if irritation occurs and persists.

Skin contact: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.

Section 4. FIRST AID MEASURES (Continued)

Inhalation: Remove to fresh air.

Advice to Doctor: Treat symptomatically.

Section 5. FIRE FIGHTING MEASURES

Extinguishing media: This product is a COMBUSTIBLE LIQUID (flash point > 200°C). Extinguish fire using carbon dioxide, foam, dry agent or water fog or water spray. Contain all runoff.

Hazards from combustion products: Combustible liquid (C2). Can emit toxic fumes when burned.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or vapours generated.

Section 6. ACCIDENTAL RELEASE MEASURES

Emergency procedures / Material and methods for containment and cleanup procedures: For good hygiene practices, wear protective equipment to prevent skin contamination. In the case of spillage, contain and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as indicated below or according to the Australian Standard 2507-1998 - Storage and Handling of Agricultural and Veterinary Chemicals.

Section 7. HANDLING AND STORAGE

Precautions for safe Handling: No smoking, eating or drinking should be allowed where material is used or stored. This product is a C2 Combustible liquid – refer to *AS 1940-2004 (amdt 2) The Storage and Handling of Flammable and Combustible Liquids* for more information on the storage and handling of combustible liquids. Wash hands after use.

Conditions for safe Storage: Not classified as a Dangerous Good. This product is a not a schedule poison. Store in the closed, original container in a well ventilated area away from children. Do not store for prolonged periods in direct sunlight. Do not re-use container for any purpose.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

No exposure limits have been established for this product by Safe Work Australia.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Use in ventilated areas. Keep containers closed when not in use. No special engineering controls are required for normal use.

Personal Protective equipment (PPE):

Skin: Use normal hygiene practises when opening the container and using the product, by wearing cotton overalls and rubber gloves. Wash before smoking, eating or using toilet facilities. Wash hands after use.

Respiratory Protection: Generally not required. Use in well ventilated ares.



Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Milky white coloured liquid.
Odour:	Terpene odour.
Boiling point:	No data available.
Freezing point:	No data available.
Specific Gravity:	0.95-0.97 at 20 °C.
Solubility in Water:	Not soluble - forms an emulsion.
pH:	Neutral.
Flammability:	Combustible liquid (C2).
Corrosive hazard:	Not corrosive.
Flashpoint (°C):	> 200 °C.
Flammability Limits (%):	Not established.
Poisons Schedule:	Not a scheduled poison.

Section 10. STABILITY AND REACTIVITY

Chemical Stability: Product is considered stable.

Conditions to avoid: Avoid exposure to heat.

Incompatible materials: Can react with oxidising agents and acid catalysts.

Hazardous Decomposition Products: If involved in a fire, it may emit fumes containing toxic compounds.

Hazardous Reactions: No special considerations.

Section 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

ACUTE EFFECTS

Swallowed: Low toxicity. Acute oral LD₅₀ > 5,000 mg/kg.

Eye: Not irritating.

Skin: Low toxicity. Acute dermal LD₅₀ > 2,000 mg/kg. Generally not irritating, may cause very mild irritation in sensitive people.

Inhaled: Low toxicity. Acute inhalation LD₅₀ > 2.46 mg/L/4 hour (highest concentration attainable, no deaths recorded).

Long Term Exposure: None known.

Section 12. ECOLOGICAL INFORMATION

Environmental Toxicology: Essentially non toxic to bees (48hour LC₅₀ > 200 µg/bee) and earthworms (14 day LC₅₀ > 1000 ppm).

Environmental Fate: di-1-p-menthene, the active ingredient in this product is degraded in soils by micro organisms in approximately 15 days. However, it is not readily degradable in water and is partly soluble in water. It may cause long term adverse effects in aquatic environments. It has no inhibitory effects to sewage micro organisms.



Section 13. DISPOSAL CONSIDERATIONS

Disposal of empty containers: Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture containers and deliver empty packaging for appropriate disposal to an approved waste management facility. Empty containers and product should not be burnt.

Spills and Disposal: Persons involved in cleanup and disposal should use normal hygiene practises - see section 8. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

Section 14. TRANSPORT INFORMATION

This product is not classified as a Dangerous Good. Product is a combustible liquid (C2).

Section 15. REGULATORY INFORMATION

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is not a scheduled poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 53826.

This product is not classified as a Hazardous Substance under the criteria of Safe Work Australia.

This product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Section 16. OTHER INFORMATION

Issue Date: 5 October 2010. (Updating to 16 Section format).

Key to abbreviations and acronyms used in this MSDS:

ADG Code Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Carcinogen An agent which is responsible for the formation of a cancer.

Genotoxic Capable of causing damage to genetic material, such as DNA.

NOHSC National Occupational Health and Safety Commission.

OCS Office of Chemical Safety.

PPE Personal protective equipment.

Safe Work

Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

Teratogen An agent capable of causing abnormalities in a developing foetus.

TWA The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

References

1. "Search Hazardous Substances". Australian Safety and Compensation Council website. (2010).
2. "Approved Criteria for Classifying Hazardous Substances" 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS 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.

