

BASF Australia Ltd

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 Norwest Business Park,
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 Baulkham Hills NSW 2153
 Telephone: 1 800 635 550
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Material Safety Data Sheet

Product Name:	NUDRIN® 225 INSECTICIDE
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HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA.**TRADE NAME:** NUDRIN 225 INSECTICIDE**OTHER NAMES:** Methomyl,
S - methyl N-((methylcarbamoyl)oxy)-thioacetimidate**USE:** Carbamate insecticide**MANUFACTURER'S NAME/ADDRESS**

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U.N. NUMBER: 2758**DANGEROUS GOODS CLASS:** 3**SUBSIDIARY RISK:** 6.1**HAZCHEM CODE:** 3WE**POISONS SCHEDULE:** 7**PACKAGING GROUP:** II**EPG:** SAA Form 3A2**PHYSICAL DESCRIPTION/PROPERTIES****APPEARANCE AND ODOUR:** Pale yellow liquid.**BOILING POINT:** Not available**DENSITY kg/L:** 0.999**VAPOUR PRESSURE:** Not available**MELTING POINT:** Not available**VAPOUR DENSITY:** Not available**EVAPORATION RATE:** Not available**SOLUBILITY (WATER):** miscible**PERCENT VOLATILES:** Not available**FIRE/EXPLOSION HAZARD****FLASH POINT °C:** 10**AUTOIGNITION °C:** Not available**LEL:** Not available**UEL:** Not available**INGREDIENTS****INGREDIENT****PROPORTION (w/v)****CAS No.**

TECHNICAL NUDRIN

22.5%

16752-77-5

METHANOL

14.0%

67-56-1

CHEMICAL SOLVENTS

54.0%

® = Registered trademark of BASF

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE EFFECTS

No adverse health effects are expected if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms that may occur if the product is mishandled are: excessive sweating, salivation, headache, weakness, giddiness, nausea, stomach pains, blurred vision, muscle twitching, coma, respiratory arrest.

SWALLOWED

Highly toxic

EYE

Highly irritating to eyes.

SKIN

Moderately toxic.

INHALED

Highly toxic.

CHRONIC EFFECTS

Chronic feeding studies in animals do not indicate any cumulative toxicity and show that the compound is neither a carcinogen nor a teratogen.

FIRST AID

If poisoning occurs, immediately contact a doctor or Poisons Information Centre.
Telephone 131126 Australia-wide.

SWALLOWED

If swallowed, give one atropine tablet every 5 minutes until dryness of the mouth occurs. Get to a doctor or hospital quickly.

EYE

Rinse eyes well with water. Get to a doctor or hospital quickly.

SKIN

If poisoned by skin absorption, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.

INHALED

If poisoned through lungs, remove from contaminated area. Give atropine tablets as above. Apply artificial respiration, if not breathing. Get to a doctor or hospital quickly.

ADVICE TO DOCTOR

NUDRIN* 225 contains methomyl a carbamate insecticide which produces effects associated with anticholinesterase activity. Atropine sulphate should be used for treatment. Administer repeated doses 1.2 to 2.0 mg intravenously every 10-30 minutes until full atropinization is achieved. Do NOT use morphine or 2-PAM. Maintain atropinization until the patient recovers.

Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitors until recovery is assured.

TOXICITY

No LD50 data is available for NUDRIN* 225. The following data is for technical methomyl.

Acute Toxicity LD50	(mg / kg)
Rat Oral	17
Rabbit Dermal	> 5000

PRECAUTIONS FOR USE

EXPOSURE LIMITS

Threshold Limit Value (TLV) - 2.5mg/m³ (skin) TWA ACGIH (methomyl)
Threshold Limit Value (TLV) - 200ppm, 260mg/m³ (skin) TWA ACGIH (methanol)

ENGINEERING CONTROLS

Do NOT inhale vapour or spray mist.

PERSONAL PROTECTION

Very dangerous particularly the concentrate. Product and spray are poisonous if absorbed by skin contact or inhaled or swallowed. Attacks eyes. Will irritate the nose, throat and skin. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin and clothing. Do NOT inhale vapour or spray mist. Protect eyes while using. When opening the containers and preparing spray wear elbow length PVC gloves and face shield.

When using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves, impervious footwear and half-face respirator with combined dust and gas cartridge (canister). If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product or spray on skin, immediately wash area with soap and water. 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, gloves, face-shield and respirator. Obtain an emergency supply of atropine tablets 0.6 mg.

FLAMMABILITY

Highly flammable. Isolate from sources of heat, naked flames or sparks.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in the closed, original container, in a cool, well-ventilated area. Do NOT store for prolonged periods in direct sunlight.

Isolate from sources of heat, naked flames or sparks.

Ensure containers are correctly labelled and securely sealed.

Classified as a dangerous substance for transport purposes.

Eye-wash and washing facilities must be readily available. For decontaminating clothes and equipment have soda ash (sodium carbonate) on hand and for decontaminating and disposing spills have lime, soda ash, absorbent material and open head drums on hand.

SPILLS AND DISPOSAL

Clear area of all unprotected personnel. Wear full protective equipment including breathing apparatus. Stop leak if safe to do so by manoeuvring the container. Decant leaking container into a clean empty drum remote from the storage area and label. If the leaking container can be repacked, contact BASF Australia Ltd, so that an overdrum and transport for return to a nominated BASF location can be arranged.

Do NOT flush to drains or sewers. Do NOT contaminate streams, rivers or water courses.

Absorb spill in lime or wet area with 5% soda ash (sodium carbonate) solution and absorb on sand, earth or non-combustible absorbent material. Place material in open top drum, clean up with small amount of detergent and water, absorb and place in drum. Scatter lime over the area and leave for 1 hour. Decompose contaminated absorbent and surplus material with 5% soda ash solution. Leave in a safe place for one month. Seal drum and bury in an area approved by the local waste disposal authority.

Soak protective equipment in 5% soda ash solution for at least 24 hours. Rinse and dry. Wash overalls.

For end-users: When product has been used as a concentrate for ULV application, drain container into spray vat until empty. If recycling, triple rinse empty container with a 5% caustic soda solution. Dispose of the rinsate below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

When the product has been used as a dilute spray, 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 and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

FIRE/EXPLOSION HAZARD

Explosive air-vapour mixture may form. Decomposition may give rise to toxic and noxious fumes. Alcohol resistant foam, carbon dioxide or dry chemical extinguishers required. Ensure respiratory equipment is available.

Evacuate immediate area. Advise Fire Brigade of nature of hazard. Wear full protective equipment, including breathing apparatus. Remove drums from site of fire, if possible, as overheating may cause some of the drums to explode. Cool surrounding containers with a fine water spray.

Avoid contact of water with material as toxic run-off will form. In this event, consideration should be given to allowing the fire to burn out. Contain run-off.

OTHER INFORMATION

PROTECTION OF LIVESTOCK

Keep animals out of operational area during treatment and while there is a danger of drift. Dangerous to bees Do NOT spray on any plants in flower while bees are foraging. ENSURE beehives are removed from area to be treated and from adjacent paddocks.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

This product is toxic to wildlife. Birds feeding on treatment areas may be killed.

Dangerous to fish. Do NOT contaminate fish ponds, dams, rivers or streams with NUDRIN 225 INSECTICIDE or the used container.

PROTECTION OF OTHERS

Keep unprotected persons out of operational area during treatment and while there is a danger of drift. Avoid contact with spray residues. Keep unprotected persons out of treated area for at least 24 hours.

RE-ENTRY PERIOD

Keep unprotected persons out of treated area for at least 24 hours.

DISCLAIMER

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. It should read taking into account how the product is handled in your particular situation and how it is used in conjunction with other products.

CONTACT POINT: BASF Australia Ltd

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Acknowledgments:

Collated by HerbiGuide. Phone 08 98444064 for more information.