

Safety Data Sheet

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Details

Trade Name: KANNAR PYGAR
 Product No: K 932
 Recommended Use: The product is a water-based canola oil garlic and pyrethrum formulation recommended for use as an insecticide
 Use Restrictions: To use as recommended only.
 Supplier Details: Kannar Earth Science (Pty) Ltd, P.O. Box 2685, Edenvale 1610, South Africa
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 SDS date: 01 June 2017
 SDS version: v015.06.2022

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture according to SANS 10234:2019 and Regulation (EC) Number 1272/2008. (CLP) – NONE

- Physical Hazards – None
- Acute Toxicity – Category 5
- Eye Irritation – Category 2B
- Skin Corrosion/ Irritation – Category 3
- Environment – Category 2

H303 May be harmful if swallowed

H316 Causes mild skin irritation

H320 Causes eye irritation

H411 Toxic to aquatic life with long lasting effect

P101 If medical advice is needed, have the product label at hand

P102 Keep out of reach of children

Precautionary Statement: If swallowed seek medical attention. Dispose contents/ containers in accordance National regulations.

Potential Acute Health Effects Misuse on human/animals. Slight irritation of eyes and mucous membrane In case of misuse (swallowed) nausea



Hazard Symbols:

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	Cas Number	Weight (%)
Canola oil, garlic extract and other ingredients below Reportable quantities	-	>99
Pyrethrum Refined extract	8003-34-7	0.138

SECTION 4 – FIRST AID MEASURES

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Seek medical attention.

Skin contact (slight): In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention.

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- Skin contact (prolonged): Wash thoroughly with disinfectant soap. Seek medical attention.
- Inhalation (slight): If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention.
- Inhalation (prolonged): Evacuate the victim to a safe area as soon as possible. Loosen tight clothing and resuscitate if required taking care not to inhale toxic fumes. Seek medical attention.
- Ingestion (slight): Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention

SECTION 5 – FIRE FIGHTING MEASURES

- Suitable Extinguishing Media: Water Fog, Carbon Dioxide, Dry Powder Foam. **Do not use Water Jet for extinguishing fires but may be used to keep containers cool.**
- Specific methods: Standard procedure for chemical fires

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- Personal Precautions: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should only be employed in processes in which this product is used under supervision.
Avoid contact with skin, eyes and clothing.
Do not inhale fumes/vapours.
Keep away from foodstuffs and beverages.
Wash hands after use.
- Protective Equipment: Wear protective clothing, solvent resistant gloves, boots and eye goggles/face mask. Work in a well-ventilated area and wear respiratory protective equipment.
- Environmental Precautions: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
- Containment and Clean-Up: Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container for disposal in accordance with the waste regulations. Do not allow to enter drains or waterways.

SECTION 7 – HANDLING & STORAGE

- Handling: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation.
- Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.
Avoid Freezing. If the Product freezes, thaw and mix before use.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

Component	Cas Number	Source	TWA Value	STEL
*	*	ACGIH TLV	*	*

Contains no reportable quantities of toxic chemical (s) subject to the reporting requirements of USA section 313 of SARA title III

- LTEL: Long Term Exposure Limits - Time Weight Average (TWA) over 8 hours.
STEL: Short Term Exposure Limits - Time Weight Average (TWA) over 15 Minutes
Note: Limits Shown for guidance only. Follow applicable regulations

Personal Protective Equipment (PPE)

- Engineering controls: General mechanical ventilation should effectively remove and prevent build-up of any vapour or mist generated from handling this product in a closed environment Use in well -ventilated area. Explosive-proof ventilation equipment with local exhaust is desirable

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Respiratory protection:	No personal respiratory protection required under normal conditions of use. Use mechanical ventilation to remove excessive vapours / mists. If excessive vapours / mists persist, use appropriate NIOSH / MSHA approved organic vapour/mist respirator
Eye protection:	Wear safety glasses with side shields. Wear additional eye protection such as chemical goggles or face shield if splashing or spraying hazard exists. Have an eye wash station available Normal industrial eye protection practices should be employed.
Skin and body protection:	If prolonged or repeated skin contact is likely wear gloves and protective clothing. Good personal hygiene practices should always be followed.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Viscous Liquid
Colour:	Dark Brown
Odour:	Garlic
pH Value:	6 - 7
Initial Boiling Point:	100 °C
Flash Point:	>100 °C
Flammability:	Data Not Available
Upper Explosion Limit (UEL):	Not applicable
Lower Explosion Limit (LEL):	Not applicable
Vapour Pressure:	Not applicable
Density:	0.88 – 0.92
Solubility in Water:	Miscible in all proportions
Viscosity:	20 – 23 secs DIN 4 Cup @ 23° C
Auto-ignition Temperature:	Data Not Available
Decomposition Temperature:	Data Not Available

SECTION 10 – STABILITY & REACTIVITY

Stability:	Stable (Decomposition occurs at high temperatures)
Hazardous Decomposition	None under normal use. Thermal decomposition can lead to release of irritating gases and vapours. All of the water in this aqueous solution must be driven off for combustion to occur. In that dried state and depending on the chemical composition and combustion conditions, burning may produce noxious fumes which may include carbon monoxide, carbon dioxide, nitrous oxides acetic acid and /or other toxic vapours
Hazardous Polymerisation	Not known to occur
Materials to avoid	Heat, flames and sources of ignition. Avoid direct contact with strong oxidising agents, highly corrosive acids and bases. Also avoid long term storage in direct contact with reactive metals such as aluminium, zinc copper nickel, magnesium etc.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute oral toxicity	
Rats - LD50:	Greater than 2000 mg/kg
Acute inhalation toxicity	
Rats - LC50:	Greater than 3.4 mg/l air (4h exposure)

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Acute dermal toxicity
Rats - LD50: Greater than 2000 mg/kg

Chronic toxicity None known
Carcinogenic effects None known
Mutagenic effects None known
Teratogenic effects None known
Developmental toxicity None known
Acute effects on humans May cause eye, skin, and/or respiratory irritation. May cause discomfort if swallowed
Sensitization Repeated or prolonged exposure could cause sensitivity in respiratory tract and lungs

Existing medical conditions aggravated by exposure May provoke asthmatic response in persons with asthma or who are sensitive to airway irritants

SECTION 12 – ECOLOGICAL INFORMATION

Elimination information (persistence and degradability):

Biodegradability: Not established.

Physicochemical removability: Not established.

Bioaccumulation: Not established.

Further info on ecology:

Remarks: Toxic to fish, aquatic organisms and wildlife. **Do not discharge into lakes, streams, ponds and ground water supply.**




SECTION 13 – DISPOSAL CONSIDERATIONS.

EPA waste number Non-hazardous waste
 Treatment Dispose of according to all federal, state, local, and provincial environmental regulations
 Waste disposal: Dispose waste as per local rules and government regulations.

Contaminated packaging: All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Other regulations: Disposal of unused product may be subject to RCRA regulations (40 CFR261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP)

SECTION 14 – TRANSPORT INFORMATION

ADR		
UN Number	3082	
UN Proper Shipping Name	Environmentally Hazardous Mixture N.O. S	
Transport Hazard Class(es)	9	
Packing Group	III	
Environmental Hazards	Toxic to fish and aquatic organisms	
IMDG		
UN Number	3082	
UN Proper Shipping Name	Environmentally Hazardous Mixture N.O. S	
Transport Hazard Class(es)	9	
Packing Group	III	
Environmental Hazards	Toxic to fish and aquatic organisms	
IATA		
UN Number	3082	
UN Proper Shipping Name	Environmentally Hazardous Mixture N.O. S	
Transport Hazard Class(es)	9	
Packing Group	III	
Environmental Hazards	Toxic to fish and aquatic organisms	

There are no specific transportation precautions required.

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SECTION 15 – REGULATORY INFORMATION

Safety, Health and Environmental Regulations/legislations specific to substances or mixtures: None

Chemical Safety assessment: Chemical Safety assessment for substances in this preparation were not carried out.

Hazard Statements:

- Physical None

Health:

- H303 May be harmful if swallowed
- H316 Causes mild skin irritation
- H320 Causes eye irritation
- H411 Toxic to aquatic life with long lasting effect
- P101 If medical advice is needed, have the product label at hand
- P102 Keep out of reach of children

Environment This product is toxic to aquatic/marine organism, it is advisable not to discharge into lakes, streams, ponds and ground water supply.

SECTION 16 – OTHER INFORMATION

Terms of use: This summarises at the date of issue our best knowledge of health, environmental hazard and safety information related to the product, how to safely handle, use, store and transport the product. Since Kannar Earth Science cannot anticipate or control the conditions in which the product may be handled, used, stored or transported, every user must prior to usage review the MSDS in relation to intended use, storage and transport of the product in the workplace and elsewhere. Such information should be communicated to all relevant parties. If further information is required, please contact Kannar Earth Science

Kannar Earth Science shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given. Kannar Earth science sole and exclusive warranty is that the products comply with Kannar Earth Science published chemical and physical specifications in effect at the time of sale. Kannar Earth Science liability for claim suits is in all cases limited to the purchase price of the particular quantity of product upon which the claim is based. Under no circumstances shall Kannar Earth Science be liable for loss of profits or any other indirect and consequential loss or damage resulting from improper use of the product.

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