





KAPI LIMITED

MANUFACTURERS & DISTRIBUTORS

 P.O. BOX 252-20100, NAKURU
KENYA. KUFANYA ROAD

 0726 114 140
0737 127 853

 info@kapiltd.co.ke
office@kapiltd.co.ke

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE

Product name	Flower DS 4% Public Health
Product type	4% Pyrethrin based insecticide concentrate for public health use
Use	Indoor Spraying for the control of household insects
Manufacturer	Kapi Limited

2. COMPOSITION/INFORMATION ON INGREDIENTS

NAME OF INGREDIENT	FUNCTION	CONCENTRATION	CAS NUMBER
Pyrethrins (Pyrethrins I) (Pyrethrins II)	Active ingredient	4% w/w	8003-34-7

3. HAZARD IDENTIFICATION

Human health hazards	Skin contact may cause allergic dermatitis and if swallowed it may cause lung damage
Safety hazards	Non-flammable
Environmental hazards	ENVIRONMENTALLY HAZARDOUS LIQUID N.O.S

4. FIRST AID MEASURES

Symptoms and effects	Not expected to give rise to an acute hazard under normal conditions of use. Under high temperature conditions, vapours irritating to the nose, throat and upper respiratory tract may be produced.
Inhalation	Remove the affected person to fresh air, obtain medical assistance immediately.

MATERIAL SAFETY DATA SHEET

Ingestion	Wash out mouth with water and seek medical help immediately. Do not induce vomiting
Skin	Flush contaminated skin with soap and water. Remove contaminated clothing and soak in water. Launder before re-use.
Eyes	Flush with copious quantities of water. If irritation persists, seek medical attention.

5. ACCIDENTAL RELEASE MEASURES

Personal precautions	Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing. Do not discharge into drains or rivers.
Personal protection	Wear suitable protective clothing.
Respiration protection	Normal (mechanical) exhaust
Leak / Spill	Small spills can be handled with a mop and water. Large spills should be contained with sawdust and disposed of under local authority regulations.

6. FIRE FIGHTING MEASURES

Extinguishing media	Product not flammable. Water spray, foam, dry powder or CO2 for surrounding fires.
Special hazards arising from the Substance or mixture	The product is non combustible. If heated, irritating vapours may be formed.
Advice for fire-fighters	Full protective equipment including self-contained respiratory protection equipment for fire fighters.

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes or skin. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available.
Conditions for safe storage, including any incompatibilities	Keep in original containers. Keep separate from food, feedstuffs, fertilisers and other sensitive materials.

MATERIAL SAFETY DATA SHEET

Suitable packagine

Keep in original containers

Keep tightly closed when not in use. Do not store below 5°C or above 30°C. Keep separate from food and feedstuffs.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls	Provide adequate ventilation
Hygiene measures	Wash hands with soap and water before eating, drinking, smoking and using the toilet
Respiratory protection	Normal (Mechanical) exhaust
Hand protection	Wear protective gloves (Impermeable or nitrile rubber gloves)
Eye protection	Wear safety gloves.
Skin Protection	Wear suitable protective overalls

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Odour	Characteristic vegetable smell
Colour	Pale Yellow
Solubility in water	Not Soluble
Vapour density	Not established
pH	6.5 - 7.5
Specific Gravity	0.965
Flash point	Above 100 °C
Boiling point	N/A
Explosive Properties	None reported for the ingredients used

10. STABILITY AND REACTIVITY

Conditions to avoid	Extremes of temperature and moisture (in storage) Avoid contact with acids and oxidising substances
Materials to avoid	Alkalis and alkaline materials
Hazardous decomposition products	Burning produces oxides of carbon

MATERIAL SAFETY DATA SHEET

Reactivity	Not expected to be reactive.
Chemical Stability	Stable under normal conditions
Possibility of hazardous reactions	No polymerisation reaction expected

11. TOXICOLOGICAL INFORMATION

Eye effects	Causes stinging sensation
Skin effects	Mildly Irritating. May cause allergic dermatitis
Ingestion	May cause lung damage if swallowed
Effects of over exposure	N/A
Inhalation	Under normal use should not present a hazard. Irritation to the respiratory system may occur in sensitive individuals.

HEALTH HAZARDS

Who classification:	"Moderately hazardous"
---------------------	------------------------

12. ECOLOGICAL INFORMATION

Biodegradation	Highly biodegradable
Ecotoxicity	
Fish	Highly toxic to fish
Honey bees	Toxic to bees
Soil micro-organisms	No negative effect when applied in normal use level

13. DISPOSAL CONSIDERATIONS

Waste disposal	Wastes disposed of in accordance with the prevailing regulations. Do not release into water bodies.
Product disposal	As for waste disposal.
Container/packaging disposal	All containers should be emptied, rinsed three times with water then offered for recycling or reconditioning. Can be disposed of in a landfill or by other procedures permitted by law. Containers should not be used for storing food or drinks.

MATERIAL SAFETY DATA SHEET

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME	Environmentally hazardous substance, liquid, N.O.S (Pyrethrin insecticide)
HAZARD CLASS	9
UN NUMBER	3082
PACKING GROUP	III

15. REGULATORY INFORMATION

This product is registered with the Pest Control Products Board (PCPB), Government of Kenya as per the Pest Control Products Act 1982.

R-Phrases

- a) R41- Risk of serious eye damage
- b) R50- Very toxic to aquatic organisms
- c) R53- May cause long term adverse effects in the aquatic environment

S-Phrases:

- a) S2- Keep out of reach of children
- b) S25-Avoid contact with eyes
- c) S36- Incase of contact with eyes, rinse immediately with plenty of water, seek medical attention.
- d) S24 – If swallowed, seek medical advice immediately

Legal disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements & local regulations. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Review Date: 28th / July / 2021



Kapi Limited is certified as meeting the requirements of ISO 9001:2015

