

SAFETY DATA SHEET – RESISTIM PLUS

1. Identification of the substance/preparation and of the company/undertaking.

PRODUCT NAME RESISTIM PLUS

COMPANY Mandops (UK) Limited, 36 Leigh Road, Eastleigh, Hampshire, SO50 9DT

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2. Composition/information on ingredients

Foliar fertiliser containing N,P,K,S in aqueous solution

3. Hazards identification

FIRE Non-flammable.

PHYSICAL/CHEMICAL A non volatile aqueous solution which reacts with strong oxidising agents and acids.

HEALTH Irritating to eyes and to the skin with prolonged or repeated exposure.

ENVIRONMENT Low - biodegradable.

4. First aid measures

EYES Contact with eyes may cause irritation. Keeping eyelids open, irrigate well with copious amounts of eye wash solution or clean water, without delay, for 15 minutes minimum. Obtain medical attention if symptoms persist.

SKIN Contact with skin may cause moderate irritation. Remove contaminated clothing, wash skin immediately with soap and rinse with copious amounts of water. Obtain medical attention if irritation occurs **and** persists.

INGESTION Ingestion will cause burning of the throat. May cause nausea and vomiting. Do not induce vomiting. Wash out mouth with water and give plenty of water to drink. If vomiting occurs, place patient in the recovery position. Keep patient at rest and obtain medical attention at once.

INHALATION Inhalation of concentrated vapour may cause irritation of nose and respiratory system. May cause dizziness and headache. Remove to fresh air. If symptoms persist obtain medical attention.

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5. Fire-fighting measures

EXPOSURE HAZARD

If involved in a fire, although non-flammable, it will emit obnoxious and toxic fumes containing sulphur dioxide, hydrogen sulphide, ammonia and hydrogen.

Firefighting personnel should wear standard chemical-resistant protective suit and self-contained breathing apparatus.

SUITABLE EXTINGUISHERS

Fight fire with foam, water spray, carbon dioxide or dry powder, as suitable for other, combustible, materials involved .

OTHER ADVICE

If without risk, remove unopened packages from exposure to fire. Otherwise spray unopened containers with water to keep cool.

6. Accidental release measures

PERSONAL PRECAUTIONS

Wear protective equipment described in Section 8. Do not eat drink or smoke. Avoid contact with skin and eyes. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Prevent large spillages from entering drains or sewers (inform local water authority if this occurs).

OTHER PRECAUTIONS

Cordon off area and evacuate personnel if large spillage. Keep people and animals away.

CLEAN-UP METHODS

Dilute small spillages and flush to drain with copious amounts of water. Absorb and contain larger spillages with sand, earth or proprietary absorbent and dispose of safely.

7. Handling and storage

HANDLING

No special precautions are necessary if unopened packs are handled with care. When handling in a usage context, wear full overalls, PVC or rubber gloves and boots. When handling in a spillage context, refer to Sections 3, 6 and 8. In all cases, before attempting to handle packages manually, refer to assessments made under the Manual Handling Regulations. Wash hands thoroughly before eating, drinking or smoking and after work.

STORAGE

Keep sealed in original containers. Store in frost-free conditions above 2EC. Store away from acids and oxidizing agents. Rotate stock and examine regularly for leakages.

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8. Exposure controls/personal protection

ENGINEERING CONTROLS	Apply COSHH assessment according to standard (OES) EH 40/94.
RESPIRATORY	Not normally required.
HANDS AND FEET	Wear PVC or rubber gloves or gauntlets and boots.
EYES AND FACE	Wear face shield or goggles to BS 2092.
SKIN	Wear long sleeved overalls.
NOTE	If possible decontaminate protective clothing before removal. Some of the above protective equipment may be inappropriate when small quantities of product are involved. Obtain expert advice before disregarding.

9. Physical and chemical properties

APPEARANCE	Translucent aqueous solution
ODOUR	Slight ammoniacal
MELTING POINT	N/A
FREEZING POINT	-2EC
DENSITY (g/ml)	1.15 @ 12EC
SOLUBILITY IN WATER	Completely miscible
pH (concentrate)	6.12

10. Stability and reactivity

STABILITY	Stable in normal ambient conditions. Avoid frost (for technical reasons).
MATERIALS TO AVOID	Store away from oxidizing agents and acids. Avoid materials which react with water.
HAZARDOUS DECOMPOSITION PRODUCTS	Sulphur dioxide, hydrogen sulphide, ammonia and hydrogen (highly flammable)(see Section 5).

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11. Toxicological information

ACUTE TOXICITY	No information available. Main effect will be the irritant effects of trace amounts of ammonia.
ACUTE EXPOSURE EFFECTS	
INHALATION	Mildly irritating to the respiratory system
EYES	Moderate eye irritation
SKIN	Moderate skin irritation
INGESTION	Possible nausea and vomiting
CHRONIC TOXICITY	
CARCINOGENICITY	Not reported to be carcinogenic.
MUTAGENICITY	Not reported to be mutagenic.
REPROTOXICITY	Not reported to be reprotoxic.

12. Ecological information

AQUATIC TOXICITY	Low hazard
DEGRADATION	
SOIL DT₅₀ (days)	No data, but rapidly degrades in soil.

13. Disposal considerations

PRODUCT	Flush small quantities to drain with copious amounts of water. Large quantities require controlled waste disposal in accordance with Control of Pollution Act 1974 and Special Waste Regulations 1980. If appropriate the best method of disposal is to spray on to crops at label rates and timings.
PACKAGING	Uncontaminated outer packaging may be disposed of at an approved landfill site or by incineration. Contaminated or inner packaging should be disposed of as for product above.

14. Transport information

TRANSPORT	Material is not classified as hazardous or dangerous for transport according to current international regulations.
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15. Regulatory information

LABEL NAME	Resistim Plus
CLASSIFICATION	Not classified by CHIP Regulations
RISK SYMBOL	None
RISK PHRASES	None
SAFETY PHRASES	S14 - KEEP AWAY FROM ACIDS AND OXIDIZING AGENTS S23 - KEEP AWAY FROM FUMES S37/39 - WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION

16. Other information

THIS MATERIAL IS USED FOR Agricultural and horticultural foliar fertilizer

SOURCES OF DATA Raw material suppliers safety data sheets

This Safety Data Sheet is VERSION 1.

Prepared by: PF on 27.05.04

Mandops have taken care to ensure the accuracy of the information given herein and provide this Safety Data Sheet as required by Directives 91/155/EEC and 93/112/EC but give no warranty as to accuracy or completeness. Since the conditions of use of this product vary, and are not within the control of Mandops, the obligation to ensure safety rests with the user.