



SAFETY DATA SHEET

ROSECARE PLUS

Date Issued: October 2020
Version No.: 1
Print Date: 20/10/20

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1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: ROSECARE PLUS

SUPPLIER: EFEKTO (Pty) Ltd.

PO Box 652147

BENMORE

2010

TEL No. 0861 333 586

Email: info@efekto.co.za

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 082 446 8946

POISONINGS:

Poisons Information Helpline 0861 555 666 (all hours)

Griffon Poison Information Centre: 082 446 8946

Use: An emulsifiable concentrate (EC) containing systemic fungicides plus insecticides with systemic and contact action, for the control of diseases and pests in roses.

Use restrictions: Do not allow spray to drift onto fish ponds.
Do not spray into open flowers or when bees are active.

2. HAZARDS IDENTIFICATION

Emergency Overview: Unlikely to present acute hazard in normal use (Ref: The WHO Recommended Classification of Pesticides by Hazard).

Main Hazards: May cause mild eye irritation.
Toxic to bees.

Routes of exposure: Ingestion, skin and eye contact, inhalation.

Ingestion: This would need to be intentional since a large amount would need to be ingested to produce a toxic reaction. Small quantities are unlikely to be toxic.

Skin and Eye Contact: Not a skin irritant. Mild eye irritant.

Inhalation: Not toxic by inhalation but inhalation of spray mist may irritate nose, throat, and lungs and pose an aspiration hazard if ingested.



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Skin sensitization: Not a skin sensitizer.
Hazardous decomposition Products: May emit toxic fumes if involved in a fire or exposed to extreme heat.
Refer to Section 11 for detailed toxicological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Active ingredients:</u>	<u>CAS Number</u>	<u>Conc. (g/l)</u>	<u>Symbol</u>	<u>WHO Class</u>	<u>R-phrases:</u>
Imidacloprid	138261-41-3	60.5	Xn	II	R 22, R52
Difenoconazole	119446-68-3	25	Xn	II	R 22, 50/53
Penconazole	66246-88-6	13	Xn, N	III	R 22, 51/53
Abamectin	71751-41-2	1.5	T ⁺ , N	Ib	R 20, 28, 50
<u>Other Ingredients:</u>					
Solvent mixture	-	350 - 400	Xi, Xn	-	R 22, 36/38
Petroleum distillates	-	< 200	Xn, N	III	R 36/37/39, 51/53, 65/66/67

Proprietary, non-hazardous inerts make up the balance of the formulation

Refer to Section 16 for Symbol and R-phrases explanations.

4. FIRST AID MEASURES

Symptoms of poisoning: No adverse health effects are expected if this product is used according to the directions on the label. However, if the product is misused, signs and symptoms of poisoning may include abdominal pain, diarrhoea, dizziness, fatigue, headache, twitching, cramps, and muscle weakness.

Skin contact: Rinse the affected skin area with plenty of cold water and soap. Get medical attention if irritation persists.

Eye contact: In case of contact with eyes, hold eyelids open and rinse with water for 15 to 20 minutes. Remove contact lenses after the first 5 minutes, if present, then continue rinsing eye thoroughly with water. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Loosen tight clothing. Get medical attention if symptoms develop.

Inhalation: Remove source of contamination or move victim to fresh air. Keep affected person warm and at rest. Give oxygen if patient has difficulty in breathing. If not breathing give artificial respiration. Obtain medical assistance.

Advice to physician: Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Extinguishing agents: CO₂ and dry chemical powder for small fires and foam or water fog for larger fires. (**DO NOT** use a solid water stream as it may scatter and spread the fire).

Fire fighting: Remove spectators from surrounding area. Remove container from fire area if



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Special protective equipment for fire-fighters:

Decomposition products:

Further information:

possible. Use a recommended extinguishing agent. Contain runoff to prevent pollution. Avoid inhaling hazardous vapours. Keep upwind.

Wear a fire resistant suit with self-contained breathing apparatus. No unprotected person should be allowed in the vicinity.

In the event of a fire toxic and/or irritating gases can be released.

Cool closed containers, exposed to fire, with water spray. Collect and contain fire control agents for later disposal. Do not allow runoff from the fire fighting to flow into drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Protective clothing to be worn when clearing spillage to prevent skin and eye contact.

Small and large spills:

Contain the spillage with barriers and soak up liquid with absorbent materials starting at the edges and moving to the centre of the spill. Use enough dry powder to completely cover the spill so there is no free liquid. Collect with a spade and deposit in a secure, properly labeled, closed container for later disposal. In the case of spillage in water, use barrier devices to prevent dispersion of the product. Collect and store spillage for disposal as above. Dispose of waste in accordance with local/national regulations. Contact the competent authorities if the situation cannot be controlled

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Contaminated area should be washed down with cold water and a surfactant/detergent. Do not flush waste water into sanitary sewer system, surface water or water courses. Inform the appropriate authority in case of accidental contamination of watercourses.

7. HANDLING AND STORAGE

Normal safety precautions for handling chemicals must be observed and the label directions strictly adhered to.

Handling:

Use only as directed on the label. Avoid contact with skin and eyes. Wash exposed skin area, face and hands after use and before eating, drinking, chewing gum, smoking, or using the toilet.

Storage:

Store under lock and key. Store in original container in a cool, dry, well ventilated place. Keep container tightly closed. Keep out of reach of children, uninformed persons and animals. Store away from food, animal feed, eating utensils and drinking water. Dispose of empty containers as specified on product label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No special equipment, apart from gloves, is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.



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Occupational exposure limits:	Not established.
Occupational health:	Comply with occupational safety, environmental, fire, and other applicable regulations. If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment such as safety goggles, long sleeves and trousers, boots and gloves. Work in an adequately ventilated area. Avoid contact with skin, eyes and clothing. Clean hands and face at regular intervals whilst at work and before breaks. Wash exposed skin area, face and hands at the end of the work shift. Remove soiled clothing immediately and clean thoroughly before using again. Launder working clothes separately from other clothing.
Emergency eye wash:	The employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Homogeneous and clear liquid, free from any visible suspended matter or sediment.
Colour:	Yellow
Odour:	Aromatic hydrocarbon
Density:	± 1.020 g/ml
Flash Point:	> 51 °C
pH of 1 % aqueous dilution:	6.5 @ 19 °C
Persistent foam:	No foam after 1 minute
Storage Stability:	Not affected by storage at 0 °C for 7 days or by storage at 54 °C for 14 days.
Emulsion stability:	Stable

10. STABILITY AND REACTIVITY

Storage stability:	Stable for at least 2 years under normal warehouse conditions when stored in original, unopened container.
Conditions to avoid:	Temperature extremes, combustible materials and ignition sources, open flames, oxidizing/reducing agents, acids, alkalis and excessive moisture.
Hazardous decomposition products:	In case of fire, toxic fumes are emitted.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀:	> 5000 mg/kg body weight in rat	GHS Classification:	Category 5 or unclassified
Acute dermal LD₅₀:	> 2000 mg/kg in rat		Category 5 or unclassified
Acute inhalation LC₅₀ (4 h):	> 5.156 mg/ℓ air		Category 5 or unclassified
Acute skin irritation:	Not a skin irritant.		Not classified
Acute eye irritation:	Mild eye irritant.		Category 2B
Dermal sensitization:	Not a skin sensitizer		Not classified
Carcinogenicity:	No data available for this formulation.		None of the active ingredients is classified as a known carcinogen.



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12. ECOLOGICAL INFORMATION

No specific ecotoxicological data are available for this formulation.

Ecotoxicological data for the active ingredients present at more than 1 % are given below.

	Imidacloprid	Difenoconazole	Penconazole
Birds: LD ₅₀ mg/kg	152 - bobwhite quail	> 2150 – mallard duck	> 1950 – mallard duck
Fish: 96-hour LC ₅₀ mg/ℓ	211 – rainbow trout	1.1 – rainbow trout	1.13 – rainbow trout
Bees: Contact acute 48 h LD ₅₀	81 ng/bee	> 100 µg/bee	> 30 µg/bee
Bees: Oral acute 48 h LD ₅₀	3.7 – 40.9 ng/bee	-	-
Earthworms:	moderately toxic	moderately toxic	moderately toxic
Persistence in soil:	persistent; but no leaching	moderately persistent to persistent	moderately persistent to persistent

Ecotoxicological information for the formulation.

Birds:	Unlikely to be acutely toxic to birds.
Aquatic organisms:	Expected to be toxic to aquatic organisms.
Toxicity to bees:	Imidacloprid, present at < 7.0 % m/v in the formulation, is highly toxic to bees by contact. To minimise the danger to bees, follow label directions and do not spray into open flowers or when bees are foraging.
Persistence/ biodegradability:	All components are readily to inherently biodegradable and vary from moderately persistent to persistent in the soil.
Bioaccumulation:	The components have a low potential for bioaccumulation or there is no evidence to suggest bioaccumulation will occur.

NB When diluted with water, according to label directions, the spray will be much less toxic than the formulation (concentrate) by all exposure routes.

13. DISPOSAL CONSIDERATIONS

Disposal: Pesticide wastes can be acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate must be avoided. Never pour surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate water, food or feed. Only approved collection schemes should be used to dispose of waste pesticides. Ideally small amounts of the product that are still in a usable condition should be disposed of by using for its intended purpose. For disposal of large amounts use an approved waste disposal contractor. Comply with all national/local legislation applying to waste disposal. Refer to GUIDELINES FOR THE DISPOSAL OF OBSOLETE, REDUNDANT, LEFT OVER AND UNWANTED PESTICIDES www.avcasa.co.za.

Packaging: Empty containers retain product residues. Triple rinse the empty container and add the rinsate to the spray mixture. Observe all labeled safeguards until container is destroyed or rendered unusable. The triple-rinsed container may be sent to an approved recycling facility. **DO NOT** use the empty container for



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any other purpose.

14. TRANSPORT INFORMATION

ADR:

Proper shipping name: Flammable liquids, n.o.s. (contains HEAVY AROMATIC PETROLEUM SOLVENT)

Class: 3; 9

UN No.: 1993

Packing Group: III

Total quantity: 60 l

IATA:

Proper shipping name: Flammable liquids, n.o.s. (contains HEAVY AROMATIC PETROLEUM SOLVENT)

Class: 3; 9

UN No.: 1993

Packing Group: III

Total quantity: 220 l Cargo aircraft only

IMDG:

Proper shipping name: Flammable liquids, n.o.s. (contains HEAVY AROMATIC PETROLEUM SOLVENT)

Class: 3; 9

UN No.: 1993

Packing Group: III

Marine Pollutant: Marine Pollutant

15. REGULATORY INFORMATION

Symbols:

(Active Ingredients)

N Dangerous for the environment.

T⁺ Very toxic

Xi Irritant

Xn Harmful

Risk phrases:

(Active Ingredients)

R20 Harmful by inhalation.

R 22 Harmful if swallowed.

R28 Very toxic if swallowed.

R36/38 Irritating to eyes and skin.

R36/37/39 Irritating to eyes and respiratory system. Danger of very serious irreversible effects.

R50 Very toxic to aquatic organisms

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R52 Harmful to aquatic organisms.



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Safety phrases: Rosecare Plus	S1/2	Keep locked up and out of reach of children.
	S3/9/49	Keep only in original container in a cool, well ventilated place.
	S7	Keep container tightly closed.
	S13	Keep away from food, drink and animal feed.
	S20/21	When using do not eat, drink or smoke.
	S23	Do not breathe spray mist.
	S24/25	Avoid contact with skin and eyes.
	S29/35	Do not empty into drains; dispose of this material and its container in a safe way.
	S37	Wear suitable gloves.

National legislation: In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act. No. 85 of 1993)

16. OTHER INFORMATION

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In the case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose of, or in any way come in contact with the product. If the recipient subsequently produces any formulation containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

END OF SDS.

REFERENCES

- The Pesticide Manual 12th Edition
- Pesticide Properties Database (PPDB)
- Safety Data Sheets of inert components