

SAFETY DATA SHEET (SDS / MSDS)

Product	RADIX-F	Document	Safety Data Sheet
Category	Actinomycete-based microbial fertiliser for Fusarium-wilt management programmes	Code	CEON-SDS-84-R05
Catalogue source	CEON catalogue PDF page 87	Status	Technical publication copy - final regulatory review required

1. Identification

Product identifier: RADIX-F

Recommended use: Actinomycete-based microbial fertiliser for Fusarium-wilt management programmes

Supplier: CEON commercial network. Emergency contact and market-specific responsible-person details must be inserted on the final local SDS.

2. Hazard identification

Provisional assessment: not classified in this catalogue-based draft. Dust, spray mist or concentrated product may irritate eyes, skin or respiratory tract.

Final GHS/CLP classification requires full formulation, pH, toxicology and market review.

3. Composition / information on ingredients

Product type: Fine microbial powder

Living bacteria content: 10/20 billion CFU/g (catalogue declaration)

Product fineness: 60-100 mesh

Moisture: 10% maximum

Exact complete formulation and CAS/EC identifiers are confidential manufacturer data and must be inserted in the legally issued SDS where required.

4. First-aid measures

Inhalation: move to fresh air; seek medical advice if symptoms persist.

Skin: remove contaminated clothing and wash with water and soap.

Eyes: rinse cautiously with clean water for at least 15 minutes; remove contact lenses if easy; obtain medical advice for persistent irritation.

Ingestion: rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek advice and show the label/SDS.

5. Fire-fighting measures

Use water spray, foam, dry chemical or carbon dioxide suitable for the surrounding fire.

Product is generally water-based or mineral/biological; packaging may burn and release irritating fumes.

Firefighters should use self-contained breathing apparatus where combustion fumes are present.

6. Accidental release measures

Wear gloves and eye protection. Avoid breathing dust, aerosol or spray mist.

Contain spill with inert absorbent. For powders, avoid creating airborne dust.

Prevent large releases to drains and surface water. Collect for recovery or disposal under local rules.

Wash residue with controlled quantities of water after collection.

7. Handling and storage

Use with adequate ventilation and avoid unnecessary contact. Do not eat, drink or smoke during handling.

Do not mix with bactericides, broad-spectrum fungicides, copper products, chlorinated water or strongly acidic/alkaline inputs unless microbial compatibility is confirmed. Prepare fresh and apply promptly. Local registration may be required for disease-control claims.

Store in original closed packaging in a cool, dry, ventilated area protected from sunlight, heat and frost. Keep biological products under conditions that preserve viability.

8. Exposure controls / personal protection

No product-specific occupational exposure limit established in this draft.

Engineering controls: ventilation and closed transfer where practical.

PPE: chemical-resistant gloves, safety glasses/goggles, work clothing; dust mask/respiratory protection where dust or mist cannot be controlled.

9. Physical and chemical properties

Appearance/form: Fine microbial powder

Colour, odour, pH, density, solubility and viscosity: batch/master specification values required.

Flash point: not expected to be relevant for water-based/mineral products; confirm for final formulation.

10. Stability and reactivity

Stable under recommended storage and normal agricultural use.

Avoid extreme heat, freezing, direct sunlight and incompatible concentrated chemicals.

Acid products: avoid strong alkalis, hypochlorites and reactive metals. Biological products: avoid disinfectants, oxidisers and conditions that destroy viability.

11. Toxicological information

No complete product toxicology dossier was available for this catalogue-based draft.

Likely routes: eye/skin contact, inhalation of mist or dust, accidental ingestion.

Repeated exposure should be minimised. Final classification must be based on formulation data and applicable bridging/calculation rules.

12. Ecological information

Avoid uncontrolled release to watercourses. Nutrient products can contribute to eutrophication in large quantities.

Biological or pesticidal products require organism-specific environmental assessment and authorised use conditions.

No complete product persistence, mobility or ecotoxicity dataset was available for this draft.

13. Disposal considerations

Use product according to label where lawful. Dispose of unusable product and contaminated absorbent via an authorised waste route.

Do not reuse empty pesticide/biological product containers. Rinse only where the approved label permits.

Packaging disposal must comply with local agricultural-chemical and packaging rules.

14. Transport information

Catalogue-based provisional status: not assigned as dangerous goods for ADR/RID/IMDG/IATA.

This status must be confirmed against final composition, pH, corrosivity, flash point and package size before shipment.

15. Regulatory information

Fertiliser, adjuvant, soil amendment, microbial or pesticide status varies by market.

Pesticidal claims and biological-control organisms may require registration, approved labels and local responsible-person arrangements.

Final SDS must comply with the law of the destination market and include supplier/emergency details.

16. Other information

Revision: Rev.05, issued 20 July 2026.

Catalogue source: PDF page 87.

This is a technically expanded catalogue-based SDS draft, not a substitute for a manufacturer-approved, formulation-complete regulatory SDS. Final release requires regulatory sign-off.