



PHC ProAct[®]

I. Identification of the substance/preparation and company

PHC ProAct

Plant Health Care,
10 Howard Est.,
Chilton Road,
Chesham,
Buckinghamshire,
HP5 2AU
Tel: 01494 775111

2. Composition/information on ingredients

Hazardous Components	%	OSHA PEL	ACGIH TLV
Polysaccharide mineral complex		None	None
Sodium thiosulfate anhydrous CAS # 7772-98-7	0.5	None	None
Magnesium Hydroxide	4.5		
Manganese compounds (as Mn)	1.5	5 mg/m ³ Ceil	0.2 mg/m ³
Nuisance Dust			
Respirable (TWA)		5 mg/m ³	10 mg/m ³
Total (TWA)		15 mg/m ³	10 mg/m ³

3. Hazards identification

Health Hazards (Acute and Chronic):

Acute: Irritation and /or redness of skin or eyes on prolonged contact. May cause nausea if ingested in significant amounts. Large dust levels may lead to coughing and irritation of the respiratory tract.

Chronic: Contains manganese. Long-term exposure to excessive levels of dust containing significant amounts of manganese compounds can cause a Parkinson Disease-like syndrome or psychosis. Prolonged or repeated contact may cause skin irritation in individuals sensitive to mineral dust. This product produces fine dusts, which may cause delayed respiratory disease or allergy if inhaled over a prolonged period of time, continuously or intermittently. Potentially allergenic. Avoid breathing dust. Repeated or prolonged inhalation of magnesium (Mg) dust has been reported to cause increased incidence of digestive disorders. Long-term exposure to excessive levels of dust containing significant amounts of manganese (Mn) compounds can cause a Parkinson Disease-like syndrome or psychosis. Target Organs of manganese (Mn) toxicity include respiratory system, central nervous system, blood, kidneys.

Signs and Symptoms of Exposure: Nausea if ingested. Irritation and /or redness of skin or eyes on prolonged contact. Large dust levels may lead to coughing and irritation of the respiratory tract. Chronic exposure to manganese compounds (usually by inhalation) may lead to Parkinson's; asthenia, insomnia, mental confusion; metal fume fever: dry throat, cough, chest tightness, dyspnea (breathing difficulty), rales, flu-like fever; low-back pain; vomiting; malaise (vague feeling of discomfort); lassitude (weakness, exhaustion); kidney damage.

Medical Conditions Generally Aggravated by Exposure: Asthma or respiratory conditions may be aggravated by exposure to high dust levels.



4. First aid measures

Ingestion--Seek Medical attention if ingested and if nausea develops.

Eyes--Flush with water. Contact doctor if irritation persists.

Skin--Wash with soap and water. Contact physician if irritation persists.

Inhalation--Remove person to fresh air. If not breathing, give artificial respiration and contact a doctor.

5. Fire-fighting measures

Flash Point: No Data

Flammable Limits; LEL: No Data; **UEL:** No Data

Extinguishing Media: Foam or water fog.

Special Fire Fighting Procedures: This product will burn and may evolve SO₂ above 600 F.

Unusual Fire and Explosion Hazards: Keep dust levels low to prevent dust ignition and airborne dust explosions.

6. Accidental release measures

Steps to be Taken in Case Material is Released or Spilled: Take precautions to keep product out of streams or water supplies. Sweep up and use as product as recommended, or dispose in accordance with all federal, state, and local laws.

7. Handling and storage

Respiratory Protection: Dust mask

Ventilation: Adequate to maintain levels below TLV for nuisance dusts.

Protective Gloves: Rubber, latex, vinyl, or any gloves without pores recommended.

Eye Protection: Safety Glasses recommended if eye contact is possible.

Other Protective Clothing or Equipment: Apron recommended.

Work/Hygienic Practices: Wash hands after handling. If spilled on clothes, wash as usual.

Precautions to be Taken When Handling Material: Wear waterproof gloves when using or applying product. Dress to prevent significant skin or eye contact. Use a dust mask when handling dry product. Wash hands after handling.

8. Exposure controls/personal protection

Steps to be Taken in Case Material is Released or Spilled: Take precautions to keep product out of streams or water supplies. Sweep up and use as product as recommended, or dispose in accordance with all federal, state, and local laws.

Waste Disposal Method: Dispose in accordance with all federal, state, and local laws

Precautions to be Taken When Handling Material: Wear waterproof gloves when using or applying product. Dress to prevent significant skin or eye contact. Use a dust mask when handling dry product. Wash hands after handling.

Other Precautions: Normal hygiene practices.

Respiratory Protection: Dust mask

Ventilation: Adequate to maintain levels below TLV for nuisance dusts.

Protective Gloves: Rubber, latex, vinyl, or any gloves without pores recommended.

Eye Protection: Safety Glasses recommended if eye contact is possible.

Other Protective Clothing or Equipment: Apron recommended.

Work/Hygienic Practices: Wash hands after handling. If spilled on clothes, wash as usual.



9. Physical and chemical properties

Form :	Powder
Colour :	Brown
Odour :	Earthy
Starts to boil :	N/A
Density :	1%
Solubility in water :	N/A
pH value :	N/A
Viscosity (dynamic) :	N/A

10. Stability and reactivity

Thermal decomposition : N/A

11. Toxicological information

Acute oral toxicity :	LD50 > 2,000 mg/kg (rat) Method : EEC 92/69, B.1
Irritant effect on skin :	Non-Irritant (7 d, rabbit) Method : EEC 92/69, B.4
Irritant effect on eyes :	Non-Irritant (7 d, rabbit eye) Method : EEC 92/69, B.5
Remarks	Preparation has not been tested Toxicological data refers to the main component.

12. Ecological information

Fish toxicity :	LC50 > 1,000 mg/l (96 h, golden orfe (leuciscus idus melanotus)) Method : OECD 203
Daphnia toxicity :	EC50 100 - 1,000 mg/l (48 h, Daphnia magna) Method : OECD 202.1
Remarks	Ecological data refer to the main component.

13. Disposal considerations

Product: In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority

Uncleaned packaging : Completely emptied packagings can be given for recycling.

14. Transport information

ADR	not restricted
ADNR	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted



15. Regulatory information

Labeling in accordance with EC-Directives

Hazard symbols

Hazardous component(s) to be indicated on label

R phrases

S phrases

16. Other information
