



Material Safety Data Sheet

Monosodium Phosphate Granular (Feed Grade)

Issued December 15, 2009

1. Product Identification

Chemical Name: Monosodium Phosphate
Synonyms: Sodium dihydrogenphosphate
Application: Mineral feed supplement for animal feed
Chemical Formula: $\text{NaH}_2\text{PO}_4 \times n\text{H}_2\text{O}$
CAS No.: 7558-80-7

Distributed By: Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour emergency: CANUTEC: 1-613-996-6666

2. Hazards Identification

Routes of Entry:

Inhalation: May cause irritation of mucous membrane

Skin: May cause irritation

Health Hazards (Acute/Chronic):

Ingestion: May cause gastrointestinal disturbances. At high dust concentrations, irritation of the eyes, skin and mucous membrane by chemical or mechanical action may occur.

Carcinogenicity: NTP: No IARC Monographs: No

Signs & Symptoms of Exposure:

Irritation of the eyes, skin and mucous membranes. Coughing, sneezing and shortness of breath would be expected effects.

Aggravation Pre-existing Conditions:

Inhalation of dust may aggravate pre-existing respiratory ailments. Skin contact may aggravate pre-existing dermatitis. Kidney and liver disorders may be aggravated.

3. Composition/Information on Ingredients

Monosodium Phosphate: EC No.: 231-449-2
Not Classified

4. First Aid Measures

Emergency and First Aid Procedures

If Inhaled: Remove to fresh air and seek medical attention for any breathing difficulty.

In Case of Skin Contact: Wash with soap and water. Seek medical attention if red and irritated.

In Case of Eye Contact: Flush eyes immediately with water for at least 15 minutes. Seek medical attention if irritation persists.

If Ingested: Do not induce vomiting. If victim is conscious wash mouth out with water but do not swallow. Never give anything by mouth to an unconscious person. Call a physician immediately.

5. Fire Fighting Measures

Flash Point: Not combustible

Flammable Limits: LEL: NA UEL: NA

Extinguishing Media: Foam, CO₂, dry chemical or water

Special Fire Fighting Procedures: In the event of fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: Oxides of phosphorous and sodium may be released in a fire.

6. Accidental Release Measures

Material Release or Spill Precautions

Should spill occur, ventilate area. Clean up personnel require respiratory protection. Recover uncontaminated material for use. Vacuum or sweep remaining material, keeping dust to a minimum. Keep material out of sewers, storm drains, and surface waters.

7. Handling and Storage

Handling: Avoid formation of dust. Wear proper PPE (see Section 8 – Exposure Control/Personal Protection). Observe proper personal hygiene. Wash after handling.

Storage: Protect containers from damage and keep closed when not in use.

8. Exposure Control/Personal Protection

Total Dust: 8hr interval = 10 mg/m³ (2005)

Respiratory Protection

Use NIOSH approved particulate respirator if dust generation occurs or is anticipated. OSHA standard 1910.134 or ANSI Z88.2-1980 specifications are recommended.

Ventilation

A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Protective Gloves

Yes

Eye Protection

Safety goggles are recommended

Other Protective Clothing or Equipment

Use other protective equipment when necessary in order to avoid prolonged exposure to skin

Work Hygienic Practices

Observe good personal hygiene. Wash after handling

9. Physical and Chemical Properties

Physical State: Granulate
Colour: Grey
Odour: Mild
Melting Point: 650oC

pH Solution: 6 (1% water solution)
Density: 1.0 – 1.2 kg/l
Solubility in Water: Soluble to 95%

10. Stability and Reactivity

The product is stable at normal handling
The product is slightly hygroscopic

11. Toxicological Information

Acute Oral Toxicity: LD50 = 8290 mg/kg (rat)
Acute Dermal Toxicity: LD50 = >7940 mg/kg (rabbit)

General: The product is an animal feed supplement. The product is not acute toxic.

Carcinogenic Properties: The product is not considered carcinogenic according to IARC

12. Ecological Information

Mobility: The product is almost completely soluble in water
Degradability: The product is an inorganic compound and dissociates in a humid environment to sodium and phosphate
Ecotoxicity: LC 0/48h (golden orfe) 2300 mg/l according to OECD Guideline 203

13. Disposal Considerations

This product does not constitute a hazardous waste. Spill is carefully wept up without formation of dust and put in a separate container for later disposal. Contact when needed local authorities for information if spill or waste cannot be recycled. Properly emptied packaging can be recycled.

14. Transportation Information

Classified as Dangerous Good: No

Other Information

Custom's Tariff No: 2835 22 00

The road transport classification is made in accordance with GMP+ category 4

Disclaimer

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