

# Material Safety Data Sheet

Product: **Dyna Flo 12-3-6**

May be used to comply with OSHA's Hazard Communication Standard 29CFR 1910. Standard must be consulted for specific requirements.

**QUICK IDENTIFIER**  
Common Name: (Used on label and list)

## SECTION 1 - Zinc Glucoheptanate, Iron Glucoheptanate, Manganese Glucoheptanate, and Boron

Manufacturer's Name: Chemical Dynamics, Inc.      Emergency Telephone Number: 1-800-424-9300  
Address: 4206 Business Lane      Other Information Calls: 1-813-752-4950  
City, State, and Zip: Plant City, Florida 33567      Date Prepare: 1/27/97

## SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	EXPOSURE LIMITS	CAS NO.
Potassium Nitrate				
Phosphoric Acid				
Metal sulfates				

## SECTION 3- PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: N/A      Specific Gravity: 1.21      Vapor Pressure: N/A  
Vapor Pressure: N/A      Reactivity in Water: Soluble      Melting Point: N/A

Appearance and Odor: Dark opaque with sweet smell

## SECTION 4- FIRE & EXPLOSION DATA

Flash Point: N/A °F      Method Used: N/A  
Flammable Limits in Air: N/A      LEL Lower:      UEL Upper:  
Auto-Ignition Temp: N/A      Extinguisher Media: Non flammable if involved in fire, can extinguish with dry chemical; CO<sub>2</sub>, water spray or foam.

**Special Fire Fighting Procedures:** This product is non-flammable, and does not support combustion. If heated to decomposition Sulfur dioxide fumes could be emitted.  
Use of self contained breathing apparatus is recommend use extreme heat.

**Unusual Fire and Explosion Hazards:** If this product is heated to an anhydrous state it will omit Sulfur dioxide which are hazardous if inhaled. Exposure to high heat can emit toxic vapors.

## SECTION 5- PHYSICAL HAZARDS (REACTIVITY DATA)

**Stability:**  Stable       Unstable      Conditions to Avoid: Excessive heat  
**Incompatibility Materials to Avoid!:** Phosphoric acid could cause metal phosphates in concentrated form.

## SECTION 5- PHYSICAL HAZARDS (REACTIVITY DATA)..Continued

Hazardous Decomposition Products: SO<sub>2</sub> vapors.

Hazardous Polymerization: May Occur:

Will Not Occur:

Conditions to Avoid: Extreme Heat.

## SECTION 6- HEALTH HAZARDS

**ACUTE:** Mild skin irritant, conjunctivitis, upset stomach and or gastrointestinal symptoms are temporary.

**CHRONIC:** Prolonged skin contact may result in dermatitis (drying) or eczema (itching)

CARCINOGEN LISTED IN: \_\_\_\_\_ NTP IARC MONOGRAPH \_\_\_\_\_ X \_\_\_\_\_ OSHA NOT LISTED

### ROUTES OF ENTRY AND EMERGENCY FIRST AID PROCEDURES

- |                |  |
|----------------|--|
| 1. Inhalation: | <u>Move victim to fresh air and perform artificial respiration if necessary. Call physician if symptoms persist.</u> |
| 2. Eyes:       | <u>Flush eyes with running water for 15 minutes.</u>   |
| 3. Skin:       | <u>Wash with soap and water, remove contaminated clothing.</u>   |
| 4. Ingestion:  | <u>Give large amounts of water and INDUCE VOMITING. Call a physician immediately.</u>                                |

## SECTION 7- SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

### Precautions to be Taken

**Handling and Storage:** Store in cool ventilated place away from fire hazards, excessive heat, flammable or easily oxidizable materials.

**Other Precautions:** Do not allow product to go below 35 degrees. Apply product in open areas. Keep away from children and pets. Do not contaminate any water sources.

**Steps to be taken in case of Release or Spill** Clean at once. Do not allow dry material or come in contact with heat.

**Waste Disposal:** Consult federal, state, and local regulations  
Flush with water to and collect in a chemical waste disposal. Dispose according to federal, state and local regulations.

## SECTION 7- CONTROL AND PROTECTIVE MEASURES

**Respiratory Protection:** None required if used in open under normal conditions.  
Self contained respiratory equipment should be used in the event of a spill.

**Protective Gloves:** Rubber or plastic.

**Eye Protection:** Goggles or face shield.

**Other Protective Clothing or equipment:** Wear clean clothing.

**Hygienic Work Practice** Bath and wash clothes after mission is complete.