



Howard Johnson's Enterprises

Manufacturer: HOWARD JOHNSON'S ENTERPRISES, INC.
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MATERIAL SAFETY DATA SHEET

**** SECTION 1: PRODUCT IDENTIFICATION ****

Product Name: Howard Johnson's VIPER™ WEED & FEED
Epa No 228-413-32802
Chemical Name: Mixture
Other Name: Granular fertilizer impregnated with broadleaf herbicide
Shipping Information: Not regulated by US DOT for all modes of transportation within the US (package sizes 60 pounds or less)

**** SECTION 2: HAZARDOUS INGREDIENTS ****

Table with 5 columns: Hazardous Ingredients, CAS Registry Number, % By Weight, OSHA PEL, SARA 313 Reportable. Rows include Isooctyl (2-ethylhexyl) ester of 2,4-dichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, Mecoprop-p(+)-R-2-(2-Methyl-4-Chlorophenoxy) Propionic Acid, Dicamba (3,6-Dichloro-oAnisic Acid), N Methyl Pyrrolidone, and Crystalline silica (quartz)*.

*May be present as a naturally-occurring mineral in the fertilizer ingredients used in this formulation. The respirable portion of crystalline silica in this product is very small, and excessive inhalation is unlikely under normal conditions of use.

**** SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES ****

Physical Form: Granular solid
pH: Not applicable
Boiling Point: Not applicable
Solubility in Water: Partial
Vapor Pressure: Not determined
% Volatile: Not determined
Bulk Density: Not established
Refractive Index: Not applicable
Freezing Point: Not applicable
Viscosity: Free-flowing granules
Vapor Density: Not determined
Evaporation Rate: Not determined
Appearance & Odor: Multi-colored granules with a characteristic odor of phenoxy herbicide.

**** SECTION 4: FIRE AND EXPLOSION HAZARD DATA ****

Flash Point (°F): None - not flammable
Autoignition Temp (°F): Not applicable
Explosive Limits: Upper Limit (UEL): Not applicable
Flash Point Method: Not applicable
Burning Rate: Not applicable
Lower Limit (LEL): Not applicable

Extinguishing Media: Water, carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. Contain runoff to prevent pollution. Fumes and smoke from fire may be hazardous.

Unusual Fire or Explosion Hazards: None.



**** SECTION 5: HEALTH HAZARD DATA ****

Primary Routes of Entry: Inhalation, ingestion, skinned eye contact

Signs and Symptoms of Over-Exposure:

- Eye Contact: Acute: Irritation, possible corneal injury. Chronic: None reported.
- Skin Contact: Acute: May cause mechanical irritation. May be absorbed through skin. Overexposure by skin may cause nausea, vomiting abdominal pain, decrease blood pressure and muscle weakness and muscle spasms.
Chronic: May cause dermal sensitization in susceptible individuals.
- Inhalation: Acute: Excessive inhalation of fertilizer dust may irritate nose, throat and upper respiratory tract
Chronic: Excessive inhalation of crystalline silica quartz) may cause lung injury.
- Ingestion: Acute: May cause gastrointestinal irritation. Symptoms of over-exposure include myotonia (muscle spasms), general weakness, lethargy, nausea, vomiting, cramps, diarrhea.
- Chronic: May cause liver, kidney, gastrointestinal and muscular effects, peripheral nerve effects.
- Medical Conditions Aggravated by Exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Existing skin irritation, or lesions, asthma or pulmonary disease.

MSDS (continued) for Howard Johnson's WEED & FEED WITH 2,4-D

EMERGENCY FIRST AID PROCEDURES:

- Eye Contact: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Skin Contact: Remove contaminated clothing and wash skin with soap and water. If irritation develops after washing, get medical attention.
- Inhalation: Remove person to fresh air. If breathing stops, give artificial respiration and get medical attention.
- Ingestion: Call a physician or poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Target Organs: Eyes, skin, kidney, liver, gastrointestinal systems, muscle system, nervous system.

Carcinogens: IARC has listed chlorophenoxy herbicides (such as those contained in this product as class 2B (limited evidence for carcinogenicity in humans). Crystalline silica (quartz) component is classified as a carcinogen by NTP and IARC.

**** SECTION 6: REACTIVITY DATA ****

Stability: Stable
Chemical Incompatibilities: Strong oxidizers
Hazardous Decomposition Products: Thermal decomposition (burning) may produce CO, CO₂, NO_x, HCl.

Hazardous Polymerization: Will not occur
Conditions to avoid: None - product is stable

**** SECTION 7: ACCIDENTAL RELEASE PROCEDURES ****

Large Spill or Leak Procedures: Isolate and contain spill. Remove unauthorized persons from spill area. Do not walk through spilled materials. Wear suitable protective gear. Carefully sweep or scoop up spilled material and place in a closed, labeled container for use or disposal. Scrub contaminated surfaces with detergent and water, and collect wash solution for proper disposal according to label directions. Do not allow spilled material to enter streams, sewers or other waters.

Small Spill or Leak Procedures: Wearing protective clothing recommended on product label, sweep up spilled material for use according to label directions.

Waste Disposal Methods: Consult state or local environmental agency for disposal of waste generated by a spill. Wastes from use of this product according to label directions may be disposed of as specified on product label.



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****** SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION ******

Engineering Controls - Ventilation: This product is designed for outdoor use only, and ventilation is not normally required. Local exhaust may be necessary when handling this product in an enclosed area.

Administrative Controls: Follow all precautions and directions for use on the product label.

Protective Clothing/Equipment: Wash thoroughly after handling, and before eating, drinking or smoking.

Respiratory Protection: For normal handling and use conditions, a respirator is not required. For excessively dusty conditions, use a respirator approved for pesticides by MSHA/NIOSH. See OSHA regulations in 29CFR 1910.134 before using any respirator or dust mask.

Eye Protection: Good safety practices suggest the use of goggles to prevent contact with eyes.

Hand Protection: Good safety practices suggest the use of chemical-resistant (natural rubber) gloves.

Skin Protection: Wear long-sleeved shirt and long trousers to prevent contact with skin.

Contaminated Equipment: Launder contaminated clothing separately from street clothes. Clean contaminated boots/shoes and other equipment with detergent and water immediately after use.

Safety Stations: Clean water should be available to flush eyes and/or skin in case of accidental contact.

****** SECTION 9: HANDLING AND STORAGE PRECAUTIONS ******

Handling Precautions: Wear appropriate protective gear when handling open containers.

Storage Requirements: Store in a locked area, away from food or feed, and out of reach of children, pets and domestic animals, in a dry and protected area. Keep containers tightly closed. Store in original container only.

Do not remove or destroy product label. Dispose of empty containers as specified on product label.

Update: 03/2006 by: Janet P. Baguhn Compliance Manager

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