Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Howard Johnson's Viper Granular Weed Control, Howard Johnson's Premium Fertilizer Weed & Feed Phosphate-free Fertilizer, Hummert's Dyna Green Long Lasting Lawn Fertilizer with Viper Broadleaf Herbicide, Orscheln Farm & Home Weed Control Plus Turf Food, Howard Johnson's Viper Weed & Feed, TurfGro Viper Weed & Feed, Loveland Weed & Feed with Viper, Ranch Pro Weed & Feed 25-3-3 Fertilizer with Weed Killer, Terre Weed' N Feed with Viper**

Synonyms

- EPA Reg. No.: 228-401-32802; EPA Reg. No.: 228-412-32802; EPA Reg. No.: 228-413-32802; FertCDSSRspCaReproE2

Product Code

- FertCDSSRspCaReproE2

Product Description

- Variable colored granules.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Lawn fertilizer with weed control.

Restrictions on use

- Keep out of the reach of children. Avoid contact with eyes, skin or clothing. Avoid breathing dust.

Details of the supplier of the safety data sheet

Manufacturer

- Howard Johnson's Enterprises, Inc.

  9675 S. 60th Street
  Franklin, WI 53132
  United States
  www.hjefertilizer.com

Telephone (General)

- (414) 394-3590 - 8:30am - 5:00pm CST

Emergency telephone number

Manufacturer

- 1-800-424-9300 - CHEMTREC - Transportation and Non-Transportation related emergencies

Manufacturer

- 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Combustible Dust
  Respiratory Sensitization 1A
  Skin Sensitization 1
  Eye Irritation 2A
  Carcinogenicity 1A
  Reproductive Toxicity 1B

Label elements

OSHA HCS 2012

DANGER

Hazard statements

- May form combustible dust concentrations in air.
  May cause allergy or asthma symptoms or breathing difficulties if inhaled
  May cause cancer.
  May cause an allergic skin reaction
  Causes serious eye irritation
  May damage fertility or the unborn child.

Precautionary statements

Prevention

- Avoid breathing dust, fume, gas, mist, vapours and/or spray.
  In case of inadequate ventilation wear respiratory protection.
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Contaminated work clothing should not be allowed out of the workplace.
  Wash thoroughly after handling.
  Wear protective gloves/protective clothing/eye protection/face protection.

Response

- IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison control center or doctor.
  If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
  IF ON SKIN: Wash with plenty of soap and water.
  If skin irritation or rash occurs: Get medical advice/attention.
  Wash contaminated clothing before reuse.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  If eye irritation persists: Get medical advice/attention.
  IF exposed or concerned: Get medical advice/attention.

Storage/Disposal

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
  Store locked up.

Other hazards

OSHA HCS 2012

- This pesticide is toxic to fish and to aquatic organisms and may adversely affect non-target plants. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	**Identifiers**	**%**
Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester	**CAS:**1928-43-4	1.077% TO 1.346%
Acetic acid, (2,4-dichlorophenoxy)-	**CAS:**94-75-7	0.146% TO 0.182%
Propionic acid, 2-((4-chloro-o-tolyl)oxy)-, (+)-	**CAS:**16484-77-8	0.287% TO 0.359%
Dicamba (3,6-Dichloro-o-Anisic) Acid	**CAS:**1918-00-9	0.07% TO 0.09%
2-Pyrrolidinone, 1-methyl-	**CAS:**872-50-4	0.205% TO 0.284%
Peanut hulls	NDA	5% TO 33%
Limestone	**CAS:**1317-65-3	10% TO 43%
Silica, crystalline - quartz	**CAS:**14808-60-7	> 0.1%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison control center or doctor.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

- IF SWALLOWED: call a poison center or doctor if you feel unwell. Rinse mouth.

Most important symptoms and effects, both acute and delayed

- May cause allergy or asthma symptoms or breathing difficulties if inhaled due to peanut hulls, may cause developmental damage, may cause eye irritation, may cause an allergic skin reaction in individuals with a sensitivity to Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester and/or Acetic acid, (2,4-dichlorophenoxy, may cause cancer. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
- Use water, foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media
- Avoid heavy hose streams.

Firefighting Procedures
- Combustible dust - use low-pressure medium fog streams to avoid dust clouds.
  Eliminate ignition sources.
  Move containers from fire area if you can do it without risk.
  Stay upwind.
  LARGE FIRES: Dike fire control water for later disposal; do not scatter the material.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products
- Decomposes upon heating to produce toxic vapors/gases which may include carbon oxides and nitrogen oxides.

Advice for firefighters

- Do not allow run-off to enter waterways.
  Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid dust formation and breathing dust. Ventilate enclosed areas. Keep all sources of ignition away.

Emergency Procedures
- Contain spill and monitor for excessive dust accumulation. Turn off electric power to area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Avoid generating dust.
  Use appropriate Personal Protective Equipment (PPE).
  Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
  Sweep or scoop up spills, dispose of any unusable material in approved landfill. Non-sparking tools should be used.

Section 7 - Handling and Storage

Precautions for safe handling

Handling
- Avoid breathing dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid

contact with heat and ignition sources. Keep away from fire. Use only in well ventilated areas. Minimize dust generation and accumulation.

Conditions for safe storage, including any incompatibilities

Storage
- Keep out of reach of children. Store in original container. Keep away from sources of ignition – No Smoking. Store locked up.

Incompatible Materials or Ignition Sources
- Strong acids, oxidizing agents and toxic materials. Heat, sparks, open flame.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines
- No data available.

Exposure Limits/Guidelines

	Result	ACGIH	NIOSH	OSHA
Silica, crystalline - quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable dust)	0.05 mg/m3 TWA (respirable dust)
Acetic acid, (2,4-dichlorophenoxy)- (94-75-7)	TWAs	10 mg/m3 TWA (inhalable fraction)	10 mg/m3 TWA	10 mg/m3 TWA
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Exposure Control Notations

ACGIH

•Acetic acid, (2,4-dichlorophenoxy)- (94-75-7): **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)

Exposure Limits Supplemental

OSHA

•Silica, crystalline - quartz (14808-60-7): **Mineral Dusts:** ((30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction)

ACGIH

•Acetic acid, (2,4-dichlorophenoxy)- (94-75-7): **TLV Basis - Critical Effects:** (kidney tubular damage; thyroid effects)

•Silica, crystalline - quartz (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)

Exposure controls

Engineering Measures/Controls
- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms
- 

Respiratory
- If airborne dust is present or in case of inadequate ventilation, use appropriate NIOSH approved respiratory protection.

Eye/Face
- Wear dust goggles.

Hands
- Wear appropriate gloves.

Skin/Body
- Use of a full body suit such as Tyvek or Tychem suit is recommended.

Environmental Exposure Controls
- Avoid contaminating waterways and sewers.

Other Information

- See product label for specific use PPE instructions.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Variable colored granules.
Color	Varies	Odor	No data available.
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	Not relevant
Specific Gravity/Relative Density	No data available	Bulk Density	45 to 80 lb(s)/ft³
Water Solubility	No data available	Viscosity	Not relevant
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	No data available
Flammability			
Flash Point	Not relevant	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur. May form combustible dust concentrations in the air.

Conditions to avoid

- Heat, sparks, open flame. Avoid storage with or near toxic substances.

Incompatible materials

- Strong acids, oxidizing agents and caustics.

Hazardous decomposition products

- Thermal decomposition may produce toxic vapors and/or gases.

Section 11 - Toxicological Information

Information on toxicological effects

GHS Properties	Classification
Acute toxicity	**OSHA HCS 2012** • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	**OSHA HCS 2012** • Classification criteria not met
Serious eye damage/Irritation	**OSHA HCS 2012** • Eye Irritation 2A
Skin sensitization	**OSHA HCS 2012** • Skin Sensitizer 1
Respiratory sensitization	**OSHA HCS 2012** • Respiratory Sensitizer 1A
Aspiration Hazard	**OSHA HCS 2012** • Classification criteria not met
Carcinogenicity	**OSHA HCS 2012** • Carcinogenicity 1A
Germ Cell Mutagenicity	**OSHA HCS 2012** • Not classified - data lacking.
Toxicity for Reproduction	**OSHA HCS 2012** • Toxic to Reproduction 1B
STOT-SE	**OSHA HCS 2012** • Classification criteria not met
STOT-RE	**OSHA HCS 2012** • Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate)

- May cause allergy or asthma symptoms or breathing difficulties if inhaled due to peanut hulls. Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss.

Chronic (Delayed)

- Repeated and prolonged exposure to crystalline silica containing materials may cause irritation and/or lung damage silicosis, fibrosis, inflammation, cancer.

Skin

Acute (Immediate)

- May cause an allergic skin reaction in individuals with a sensitivity to Acetic acid, (2,4 -dichlorophenoxy), 2-ethylhexyl ester and/or Acetic acid, (2,4-dichlorophenoxy). Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available.

Eye

Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available.

Ingestion

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No data available.

Other

Chronic (Delayed)

- No data available.

Mutagenic Effects

- 2,4-D: There have been some positive and some negative studies, but the weight of

evidence is that 2,4-D is not mutagenic.

Carcinogenic Effects

- Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

Reproductive Effects

- N-methyl-pyrrolidone has been shown in studies to cause developmental harm.

Section 12 - Ecological Information

Toxicity

- No data available

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects

Potential Environmental Effects

- This pesticide is toxic to fish and to aquatic organisms and may adversely affect non-target plants.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Nonrefillable container. Do not reuse or refill container. See product label for container disposal instructions.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable

Special precautions for user

- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- No data available

Other information

DOT

- Environmental Hazards: RQ Acetic acid = 100 lbs.

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, SARA Title III Section 313

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals • Causes moderate eye irritation. Avoid contact with eyes or clothing.

First Aid •

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 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.

Environmental Hazards •

This product is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate. This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where that water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Inventory		
Component	**CAS**	**TSCA**
2-Pyrrolidinone, 1-methyl-	872-50-4	Yes
Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	Yes
Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester	1928-43-4	No
Dicamba (3,6-Dichloro-o-Anisic) Acid	1918-00-9	No
Limestone	1317-65-3	Yes
Propionic acid, 2-((4-chloro-o-tolyl)oxy)-, (+)-	16484-77-8	No

Silica, crystalline - quartz	14808-60-7	Yes

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Dicamba (3,6-Dichloro-o-Anisic) Acid	1918-00-9	1000 lb final RQ; 454 kg final RQ
• Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	100 lb final RQ (listed under 2,4-D, salts and esters); 45.4 kg final RQ (listed under 2,4-D, salts and esters)
• Limestone	1317-65-3	Not Listed
• 2-Pyrrolidinone, 1-methyl-	872-50-4	Not Listed
• Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester	1928-43-4	Not Listed
• Propionic acid, 2-((4-chloro-o-tolyl)oxy)-, (+)-	16484-77-8	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Dicamba (3,6-Dichloro-o-Anisic) Acid	1918-00-9	1.0 % de minimis concentration
• Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	0.1 % de minimis concentration
• Limestone	1317-65-3	Not Listed
• 2-Pyrrolidinone, 1-methyl-	872-50-4	1.0 % de minimis concentration
• Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester	1928-43-4	0.1 % de minimis concentration
• Propionic acid, 2-((4-chloro-o-tolyl)oxy)-, (+)-	16484-77-8	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Dicamba (3,6-Dichloro-o-Anisic) Acid	1918-00-9	Not Listed
• Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	Included in waste stream: F039
• Limestone	1317-65-3	Not Listed
• 2-Pyrrolidinone, 1-methyl-	872-50-4	Not Listed
• Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester	1928-43-4	Not Listed
• Propionic acid, 2-((4-chloro-o-tolyl)oxy)-, (+)-	16484-77-8	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Dicamba (3,6-Dichloro-o-Anisic) Acid	1918-00-9	Not Listed
• Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	waste number U240
• Limestone	1317-65-3	Not Listed
• 2-Pyrrolidinone, 1-methyl-	872-50-4	Not Listed
• Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester	1928-43-4	Not Listed
• Propionic acid, 2-((4-chloro-o-tolyl)oxy)-, (+)-	16484-77-8	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Dicamba (3,6-Dichloro-o-Anisic) Acid	1918-00-9	Not Listed
• Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	
• Limestone	1317-65-3	Not Listed
• 2-Pyrrolidinone, 1-methyl-	872-50-4	Not Listed

• Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester	1928-43-4	Not Listed
• Propionic acid, 2-((4-chloro-o-tolyl)oxy)-, (+)-	16484-77-8	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• Dicamba (3,6-Dichloro-o-Anisic) Acid	1918-00-9	Not Listed
• Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	
• Limestone	1317-65-3	Not Listed
• 2-Pyrrolidinone, 1-methyl-	872-50-4	Not Listed
• Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester	1928-43-4	Not Listed
• Propionic acid, 2-((4-chloro-o-tolyl)oxy)-, (+)-	16484-77-8	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed

Section 16 - Other Information

Revision Date
- 15/September/2016

Last Revision Date
- 15/September/2016

Preparation Date
- 15/September/2016

Disclaimer/Statement of Liability
- The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.