

## 1 Identification

### Product identifier

**Product name:** **HGV Flowering Formula**

**Application of the substance / the mixture** Fertilizer

**Uses advised against** None

### Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

HGV Opco LLC  
1730 S. Federal Hwy., Suite 274  
Delray Beach, FL 33483  
1 (213) 669-6877

**Emergency telephone number** Chemtrec 1-800-424-9300 CCN: 1014486

## 2 Hazard(s) identification

**Classification of the substance or mixture** The product is not classified, according to the Globally Harmonized System (GHS).

### Label elements

**GHS label elements** None

**Hazard pictograms** None

**Signal word** None

**Hazard statements** None

### Other hazards

**Results of PBT and vPvB assessment** The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3 Composition/information on ingredients

### Chemical characterization:

#### Hazardous components:

CAS: 10034-99-8	Magnesium sulfate heptahydrate Consisting of: 7487-88-9 magnesium sulphate (48.8%); 7732-18-5 Water (51.2%)
CAS: 7778-77-0	Monobasic potassium phosphate
CAS: 7778-80-5	potassium sulfate
CAS: 15708-41-5	Ferric EDTA, Sodium Salt

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CAS: 10034-96-5	Manganese (II) sulfate monohydrate
CAS: 12280-03-4	disodium octaborate tetrahydrate
	Toxic to Reproduction 1B, H360

**Additional information:**

In accordance with paragraph (i) of §1910.1200, the exact percentage (concentration) of composition of the mixture ingredients has been withheld as a trade secret.

**4 First-aid measures****Description of first aid measures**

**After inhalation:** Get medical advice/attention if you feel unwell.

**After skin contact:**

If on skin: Wash with plenty of soap and water.

Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

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.

**After swallowing:**

Do NOT induce vomiting.

Get medical advice/attention if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

Any additional important symptoms and effects are described in Section 11: Toxicological Information.

**Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

Get medical advice/attention if you feel unwell.

**5 Fire-fighting measures****Extinguishing media****Suitable extinguishing agents:**

In case of fire: Use water spray to extinguish.

Dry extinguishing powder

Carbon dioxide

Foam

**Special hazards arising from the substance or mixture** The product itself is not combustible.

**Advice for firefighters**

**Protective equipment:** Wear a self-contained breathing apparatus and chemical resistant suit.

**Additional information**

Move undamaged containers from immediate hazard area if it can be done safely.

Electrostatic discharge may trigger a dust explosion if sufficient quantities of combustible particle are suspended in air.

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Product name: **HGV Flowering Formula****6 Accidental release measures****Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation.**Environmental precautions:** Collect spillage.**Methods and material for containment and cleaning up:**

With a shovel and scoop, place material into clean, dry container. Move containers from spill area. Minimize airborne particulates.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7 Handling and storage****Precautions for safe handling:**

Ensure adequate ventilation.

Wear personal protective equipment. See section 8.

Prevent formation of dust.

**Information about protection against explosions and fires:** No special measures required.**Conditions for safe storage, including any incompatibilities****Information about storage in one common storage facility:** Keep away from food, drink and animal feeding stuffs.**Further information about storage conditions:**

Collect spillage.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:**

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Control parameters****Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**CAS: 10034-96-5 Manganese (II) sulfate monohydrate**

PEL	Ceiling limit value: 5 mg/m <sup>3</sup> as Mn
REL	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> as Mn

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TLV	Long-term value: 0.02* 0.1** mg/m <sup>3</sup> as Mn; A4, *respirable **inhalable fraction
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**Regulatory information**

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (TLV)

**Regulatory information**

Monitoring of substance concentrations in air at the workplace may be necessary to ensure compliance with official exposure limit values and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. For further information contact the supplier or the competent authorities.

**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Follow good industrial hygiene practices.

Do not eat, drink or smoke when using this product.

Launder contaminated work clothing separate from regular laundry.

**Breathing equipment:**

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator where indicated by your risk assessment process.

**Protection of hands:**

**Material of gloves** chemical resistant gloves

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

**Body protection:**

Wear protective clothing as necessary to minimize prolonged skin contact. Selection of specific items will depend on task.

**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Granulate
<b>Color:</b>	Colorless to yellow
<b>Odor:</b>	No characteristic odor
<b>Odor threshold:</b>	Not determined.
<b>pH-value:</b>	Not Applicable

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**Product name: HGV Flowering Formula****Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Not determined.
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

<b>Oxidizing properties:</b>	No data available.
<b>Vapor pressure:</b>	Not applicable.
<b>Density:</b>	Not determined.
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not applicable.
<b>Evaporation rate:</b>	Not applicable.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Soluble.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.

**Other information** No further relevant information available.

**10 Stability and reactivity**

**Reactivity** The product is stable under standard conditions (temperature, pressure) of storage and handling.

**Chemical stability** The product is stable under standard conditions (temperature, pressure) of storage and handling.

**Possibility of hazardous reactions** No dangerous reactions known under normal conditions of use.

**Conditions to avoid**

Avoid extremely high heat, fire, and active metal.

Avoid the accumulation of dust in the work area.

**Incompatible materials:** Combustible/ flammable materials

**Hazardous decomposition products:**

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Phosphorus oxides (PO<sub>x</sub>)

Sulfur oxides (SO<sub>x</sub>)

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Product name: **HGV Flowering Formula****11 Toxicological information****Information on toxicological effects****Acute toxicity:**

<b>LD/LC50 values:</b>		
<b>CAS: 7778-77-0 Monobasic potassium phosphate</b>		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rab)
<b>CAS: 7778-80-5 potassium sulfate</b>		
Oral	LD50	>2,000 mg/kg (rat) (OECD 425)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
<b>CAS: 7446-19-7 Zinc Sulphate Heptahydrate</b>		
Oral	LD50	1,710 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
<b>CAS: 7447-40-7 potassium chloride</b>		
Oral	LD50	2,600 mg/kg (rat)

**Skin Corrosion/Irritation:** Based on available data, the classification criteria are not met.**Serious eye damage/irritation:** Based on available data, the classification criteria are not met.**Sensitization:** Based on available data, the classification criteria are not met.**Additional toxicological information:****Carcinogenic categories**

<b>IARC (International Agency for Research on Cancer)</b>
None of the ingredients is listed.
<b>NTP (National Toxicology Program)</b>
None of the ingredients is listed.
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
None of the ingredients is listed.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity:** Based on available data, the classification criteria are not met.**STOT-single exposure:** Based on available data, the classification criteria are not met.**STOT-repeated exposure:** Based on available data, the classification criteria are not met.**Aspiration hazard:** Based on available data, the classification criteria are not met.

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Product name: **HGV Flowering Formula****12 Ecological information****Toxicity**

<b>Aquatic toxicity:</b>	
<b>CAS: 7778-77-0 Monobasic potassium phosphate</b>	
NOEC	200 mg/l mg/L (Hyla chrysoscelis) (15d)
LC50	92 mg/L (Dreissena polymorpha) (24h)
<b>CAS: 7778-80-5 potassium sulfate</b>	
EC50	2,700 mg/L (Chlorella vulgaris) (18d)
LC50	720 mg/L (Daphnia magna) (48h)
	680 mg/L (Pimephales promelas) (96h)
<b>CAS: 15708-41-5 Ferric EDTA, Sodium Salt</b>	
NOEC	69.9 mg/L (Pseudokirchneriella subcapitata)
96h LC50	>100 mg/L (Oncorhynchus mykiss)
48h EC50	100.9 mg/L (Daphnia magna)
<b>CAS: 7446-19-7 Zinc Sulphate Heptahydrate</b>	
IC50	136 mg/L (Pseudokirchneriella subcapitata) (OECD 201, 72h)
LC50	169 mg/L (Ceriodaphnia dubia) (48h)
	500 mg/L (Pimephales promelas) (96h)

**Persistence and degradability** No further relevant information available.**Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Ecotoxicological effects:****General notes:** Toxic for aquatic organisms.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Product name: HGV Flowering Formula****Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**14 Transport information****UN-Number**

DOT, IMDG, IATA Not applicable

**UN proper shipping name**

DOT, IMDG, IATA Not applicable

**Transport hazard class(es)****DOT, IMDG, IATA**

Class Not applicable

**Packing group**

DOT, IMDG, IATA Not applicable

**Environmental hazards:**

Not applicable.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code**

Not determined

**UN "Model Regulation":**

Not applicable

**15 Regulatory information****TSCA (Toxic Substances Control Act):**

CAS: 7778-77-0 Monobasic potassium phosphate

CAS: 7778-80-5 potassium sulfate

CAS: 15708-41-5 Ferric EDTA, Sodium Salt

CAS: 1344-73-6 sulfuric acid, copper salt, basic

CAS: 7631-95-0 Sodium molybdate

**Hazardous Air Pollutants**

None of the ingredients is listed.

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

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**Product name: HGV Flowering Formula**

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**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**National regulations:** National legislation has to be observed!

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**16 Other information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not valid for the new made-up material.

**Date of preparation / last revision** 09/27/2023**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

**Sources** Data arise from reference works and literature.