**Safety Data Sheet**
**acc. to OSHA HCS**

Printing date 04/28/2025 Version number 1 Reviewed on 04/28/2025

## 1 Identification

**Product identifier**

**Product name: HGV Grow 0-1-4**

**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
500 Orient Street, Suite 150
Chico, CA 95928
(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.
**Classification according to (d)(1)(ii) of § 1910.12000**
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
**Hazards not otherwise classified**
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

## 3 Composition/information on ingredients

| **Components:** | | | |
|---|---|---|---|
| CAS: 7732-18-5 | Water | | Trade Secret% |
| CAS: 7487-88-9 | Magnesium Sulfate, n-hydrate | | Trade Secret% |
| CAS: 7757-79-1 | Potassium nitrate | Oxidizing Solids 2, H272 | Trade Secret% |
| CAS: 7778-77-0 | Monopotassium phosphate | | Trade Secret% |
| CAS: 7778-80-5 | Potassium sulfate | | Trade Secret% |
| CAS: 15708-41-5 | Ferric EDTA, Sodium Salt | | Trade Secret% |

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**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.

## 5 Fire-fighting measures

### Extinguishing media

**Suitable extinguishing agents:**
In case of fire: Use water spray to extinguish.
Dry extinguishing powder
Carbon dioxide
Foam

**For safety reasons unsuitable extinguishing agents:** None known

**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.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation.

**Environmental precautions:** Collect spillage.

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### Methods and material for containment and cleaning up:
Absorb or cover with dry earth, sand or other non-combustible materials and transfer to clean, dry container. Move containers from spill area.

### 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.
**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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**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.
Ensure that washing facilities are available at the work place.
Do not eat, drink or smoke when using this product.

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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 should be determined by the manufacturer of the protective gloves and should be observed.

**Eye protection:** Chemical goggles or safety glasses with side shields.

**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:** | |
| **Form:** | Liquid |
| **Color:** | Dark green |
| **Odor:** | No characteristic odor |
| **Odor threshold:** | Not determined. |
| **pH-value:** | No data available. |
| **Change in condition** | |
| **Melting point/Melting range:** | No data available. |
| **Boiling point/Boiling range:** | No data available. |
| **Flash point:** | No data available. |
| **Flammability (solid, gaseous):** | Not applicable. |
| **Auto igniting:** | No data available. |
| **Decomposition temperature:** | No data available. |
| **Ignition temperature:** | Product is not selfigniting. |
| **Danger of explosion:** | Product does not present an explosion hazard. |
| **Explosion limits:** | |
| **Lower:** | Not determined. |
| **Upper:** | Not determined. |
| **Oxidizing properties:** | No data available. |
| **Vapor pressure:** | No data available. |
| **Density:** | Not determined. |
| **Relative density:** | Not determined. |
| **Vapour density:** | Not applicable. |
| **Evaporation rate:** | Not determined. |

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**Solubility in / Miscibility with**
**Water:** Soluble.
**Partition coefficient (n-octanol/water):** Not determined.
**Viscosity:**
**Dynamic:** Not determined.
**Kinematic:** Not determined.

**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.
**Incompatible materials:** Combustible/ flammable materials
**Hazardous decomposition products:**
In case of fire, the following can be released:
Nitrogen oxides (NOx)
Phosphorus oxides (POx)
Sulfur oxides (SOx)

## 11 Toxicological information

**Information on toxicological effects**
**Acute toxicity:**

| **LD/LC50 values:** | | |
|---|---|---|
| **CAS: 7757-79-1 Potassium nitrate** | | |
| Oral | LD50 | 3,750 mg/kg (rat) |
| **CAS: 7778-77-0 Monopotassium phosphate** | | |
| Oral | LD50 | >2,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rab) |
| **CAS: 7778-80-5 Potassium sulfate** | | |
| Oral | LD50 | >2,000 mg/kg (rat) (OECD 425) |
| Dermal | LD50 | >2,000 mg/kg (rat) (OECD 402) |

**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.
**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.
**Carcinogenic categories**

| **IARC (International Agency for Research on Cancer)** |
|---|
| None of the ingredients is listed. |

**Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

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US

| **NTP (National Toxicology Program)** |
|---|
| None of the ingredients is listed. |

| **OSHA-Ca (Occupational Safety & Health Administration)** |
|---|
| None of the ingredients is listed. |

**Additional toxicological information:**
**Information on likely routes of exposure:**
INHALATION: Likely route of exposure, however not hazardous at product concentration.
EYE CONTACT: Likely route of exposure, however not hazardous at product concentration.
SKIN CONTACT: Likely route of exposure, however not hazardous at product concentration.
INGESTION: Likely route of exposure, however not hazardous at product concentration.
Symptoms related to the physical, chemical and toxicological characteristics: None anticipated.
Delayed and immediate effects as well as chronic effects from short and long-term exposure: None anticipated.

## 12 Ecological information

### Toxicity

| **Aquatic toxicity:** | |
|---|---|
| **CAS: 7778-77-0 Monopotassium phosphate** | |
| NOEC | 200 mg/l mg/L (Hyla chrysoscelis) (15d) |
| LC50 | 92 mg/L (Dreissena polymorphia) (24h) |
| **CAS: 7778-80-5 Potassium sulfate** | |
| EC50 | 2,700 mg/L (Chlorella vulgaris) (18d) |
| LC50 | 720 mg/L (Daphnia magna) (48h) |
| | 680 mg/L (Pimephales promelas) (96h) |
| **CAS: 15708-41-5 Ferric EDTA, Sodium Salt** | |
| NOEC | 69.9 mg/L (Pseudokirchneriella subcapitata) |
| 96h LC50 | >100 mg/L (Oncorhynchus mykiss) |
| 48h EC50 | 100.9 mg/L (Daphnia magna) |

**Persistence and degradability** No further relevant information available.
**Bioaccumulative potential** No further relevant information available.
**Mobility in soil** No further relevant information available.

### Ecotoxical 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.

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## 13 Disposal considerations

**Waste treatment methods**
**Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**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):** The following substances are listed on the TSCA Inventory:

| | |
|---|---|
| CAS: 7732-18-5 | Water |
| CAS: 7487-88-9 | Magnesium Sulfate, n-hydrate |
| CAS: 7757-79-1 | Potassium nitrate |
| CAS: 7778-77-0 | Monopotassium phosphate |
| CAS: 7778-80-5 | Potassium sulfate |
| CAS: 15708-41-5 | Ferric EDTA, Sodium Salt |

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| **Hazardous Air Pollutants** |
|---|
| None of the ingredients is listed. |

**Proposition 65**

| **Chemicals known to cause cancer:** |
|---|
| None of the ingredients is listed. |

| **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. |

## 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** 04/28/2025 / -

**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
Oxidizing Solids 2: Oxidizing solids – Category 2

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