

1 Identification

Product identifier

Product name: **HGV Base**

CAS Number:

15245-12-2

EC number:

239-289-5

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



GHS05

Eye Damage 1

H318 Causes serious eye damage.



GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Label elements

GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05



GHS07

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Product name: HGV Base**Signal word** Danger**Hazard-determining components of labeling:**

Nitric acid, ammonium calcium salt

Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements

P260 Do not breathe mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards Product forms slippery surface when combined with water.**Results of PBT and vPvB assessment** This substance does not meet the criteria for classification as PBT or vPvB.**PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****Chemical characterization: Substances****CAS No. Description**

CAS: 15245-12-2 Nitric acid, ammonium calcium salt: ≤100%

Identification number(s)**EC number:** 239-289-5**4 First-aid measures****Description of first aid measures****After inhalation:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

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If eye irritation persists: Get medical advice/attention.

After swallowing:

Rinse mouth.

Do not induce vomiting; immediately call for medical help.

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

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5 Fire-fighting measures**Extinguishing media**

Suitable extinguishing agents: In case of fire: Use water spray to extinguish.

For safety reasons unsuitable extinguishing agents:

Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

Special hazards arising from the substance or mixture

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

The product itself is not combustible.

Keep away from combustible materials.

Fire or heat may produce irritating, toxic and/or corrosive fumes, including Nitrogen oxides.

Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

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.

Evacuate area. Use appropriate personal protective equipment (see Section 8). Stop or contain leak at the source and remove sources of ignition, if safe to do so. Keep upwind of spill.

No action shall be taken involving any personal risk or without suitable training. Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin, and clothing.

Environmental precautions:

Collect spillage.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Methods and material for containment and cleaning up:

Move container from spill area. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labelled waste container. Dispose of via licensed waste disposal contractor.

Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

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.

Do not breathe dust or fume.

Avoid sources of ignition, e.g., heat, flames or electrostatic charges, or use explosion proof motors where needed. Avoid contact with eyes and repeated or prolonged contact with skin. Wash hands thoroughly after handling. Keep away from food or drinking water.

Wash contaminated clothing before reuse.

Safety showers and eyewash facilities should be provided within the immediate work area for emergency use.

Information about protection against explosions and fires: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Conditions for safe storage, including any incompatibilities**Information about storage in one common storage facility:**

Keep away from food, drink and animal feeding stuffs.

Store away from incompatible materials. See Section 10.

Store locked up.

Store in a cool, dry, well ventilated location, and away from direct sunlight.

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: Not required.

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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.

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.

Dust mask/particulate filter respirator.

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: Tightly-fitting goggles.

Body protection:

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

Wear appropriate personal protective clothing to avoid skin contact. Recommended: overalls, safety shoes.

9 Physical and chemical properties

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

Form:	Granulate, crystalline
Color:	White
Odor:	Odorless
Odor threshold:	Not determined.
pH-value:	5 - 7 (10% solution)

Change in condition

Melting point/Melting range:	400 °C
Boiling point/Boiling range:	Not determined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.

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Product name: HGV Base

Auto igniting:	No data available.
Decomposition temperature:	Not determined.
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 applicable.
Solubility in / Miscibility with	
Water:	Very soluble in water (100 g/L)
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Other information	Specific Gravity: 2.05

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 Hazardous polymerisation will not occur.

Conditions to avoid

Avoid generation of dust.

Avoid extremely high heat, fire, and active metal.

Incompatible materials:

Organic/combustible materials.

Alkalies

Reducing agents

Acids

Hazardous decomposition products:

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Decomposes on heating, emitting toxic fumes, including Nitrogen oxides, metal oxides.

Additional information: Decomposes on heating, emitting toxic fumes, including Nitrogen oxides, metal oxides.

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Product name: **HGV Base****11 Toxicological information****Information on toxicological effects****Acute toxicity:****LD/LC50 values:****CAS: 15245-12-2 Nitric acid, ammonium calcium salt**

Oral LD50 >300-<2,000 mg/kg (rat) (OECD 423)

Dermal LD50 >2,000 mg/kg (rat)

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.**Serious eye damage/irritation:** Causes serious eye damage.**Sensitization:** Based on available data, the classification criteria are not met.**Other information (about experimental toxicology):**

Acute toxicity: Harmful if swallowed. May cause nausea, vomiting, diarrhea, and abdominal pain; large amounts may cause headaches, dizziness and a reduction in blood pressure (Hypotension). Absorption of nitrates may cause methaemoglobinaemia.

STOT SE: Breathing in dust may result in respiratory tract irritation. Absorption of nitrates by inhalation, ingestion or through burnt or broken skin may cause dilation of blood vessels by direct smooth muscle relaxation and may also cause methaemoglobinaemia.

Additional toxicological information:**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not 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.**12 Ecological information****Toxicity****Aquatic toxicity:****CAS: 15245-12-2 Nitric acid, ammonium calcium salt**

EC50 >100 mg/L (Daphnia magna) (48h OECD 202)

>100 mg/L (Pseudokirchneriella subcapitata) (72h OECD 201)

Persistence and degradability No further relevant information available.

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Product name: HGV Base**Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Ecotoxicological effects:****General notes:**

Toxic for aquatic organisms.

Prevent entry into drains and waterways.

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.**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

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Product name: HGV Base**UN "Model Regulation":** Not applicable**15 Regulatory information****TSCA (Toxic Substances Control Act):**

CAS: 15245-12-2 | Nitric acid, ammonium calcium salt

Hazardous Air Pollutants

Substance is not listed.

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

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not 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.

Training hints

The product should only be handled by persons, who were informed sufficiently about the nature of the product and about the necessary safety precautions.

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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
 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
 Acute Toxicity - Oral 4: Acute toxicity – Category 4

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Eye Damage 1: Serious eye damage/eye irritation – Category 1

Sources Data arise from reference works and literature.

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