Safety Data Sheet
acc. to OSHA HCS

Date of issue: 04/28/2025 Version number 1 Reviewed on 04/28/2025

1 Identification

Product identifier

Product name: HGV pH Up

Application of the substance / the mixture pH adjuster
Uses advised against None specified.

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


GHS05

Skin corrosion 1A H314 Causes severe skin burns and eye damage.
Eye damage 1 H318 Causes serious eye damage.


GHS07

Acute toxicity - oral 4 H302 Harmful if swallowed.

Label elements

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


GHS05 GHS07

Signal word Danger
Hazard-determining components of labeling:
Potassium hydroxide

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Hazard statements
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
Precautionary statements

P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear eye protection / face protection.
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
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		65-85%
CAS: 1310-58-3	Potassium hydroxide	Corrosive to metals 1, H290; Skin corrosion 1A, H314 Acute toxicity - oral 4, H302	10-30%

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
General information: Immediately call a poison center/doctor.
After inhalation:
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.

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US

After skin contact:
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Wash thoroughly after handling.
Wash contaminated clothing before reuse.
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:
If swallowed: Rinse mouth. Do NOT induce vomiting.
If swallowed: Call a poison center/doctor 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 Treat symptomatically.

5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents: Use dry powder, in case of fire in surroundings, all extinguishing agents allowed.
For safety reasons unsuitable extinguishing agents: None identified.

Special hazards arising from the substance or mixture
Noncombustible. Isolate from acids. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires specal precautions.

Advice for firefighters Do not breathe dusts or mists.
Protective equipment:
Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation.
Do not get in eyes, on skin, or on clothing.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Keep unprotected persons away.
Do not breathe dusts or mists.
Remove ignition sources.

Environmental precautions: Keep from entering storm sewers and ditches which lead to waterways.

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Methods and material for containment and cleaning up:
Stop spill at source. Dike and contain. Sweep spilled material into dry, sealed containers. Wash away remainder with plenty of water. Follow all local, state, and fedearl regulations for disposal of spilled material.

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.
Avoid any contact with eyes or skin.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe mist/vapors/spray.
Wash contaminated clothing before reuse.
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 separated from strong oxidants, strond acids, metals, food, and feedstuff.
Do not store above 49 °C (120 °F).
Keep container tightly closed & upright when not in use to prevent leakage.
Store away from incompatible materials. See Section 10.
Store locked up.
Further information about storage conditions:
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

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 remaining constituent has no known exposure limits.

CAS: 1310-58-3 Potassium hydroxide	
REL	Ceiling limit value: 2 mg/m³
TLV	Ceiling limit value: 2 mg/m³

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Regulatory information
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (ACGIH TLVs)

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 Provide eyewash station and safety shower.
Appropriate engineering controls
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.
Personal protective equipment:
General protective and hygienic measures:
Do not get in eyes, on skin, or on clothing.
Immediately remove all soiled and contaminated clothing.
Wash hands thoroughly after handling.
Do not breathe dust or mists.
Wash contaminated clothing before reuse.
Do not eat, drink or smoke when using this product.

Breathing equipment:
NIOSH approved respirator, based on risk assessment at the site, if OEL levels or the TWA/TLV/PEL are exceeded.

Protection of hands:
Material of gloves Chemical resistant gloves (nitrile)
Penetration time of glove material Break through time of gloves ≥8h

Eye protection:
Safety glasses with side shields
If splash potential exists, wear full face shield or chemical goggles.

Body protection:
Apron
Impervious protective clothing
Impervious footwear

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical state	Fluid
Color:	Colorless
Odor:	None
Odor threshold:	Not determined.

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Melting point/Melting range:	No data available.
Boiling point/Boiling range:	No data available.
Flammability:	Not applicable.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto igniting:	No data available.
Decomposition temperature:	No data available.
pH-value:	No data available.
Viscosity:	
Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility in / Miscibility with	
Water:	Soluble.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	No data available.
Specific Gravity	
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not applicable.
Particle characteristics	Not applicable.

Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	No data available.
Danger of explosion:	Product does not present an explosion hazard.
Change in condition	
Oxidizing properties:	No data available.
Evaporation rate:	Not determined.

10 Stability and reactivity

Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability Stable under recommended handling and storage conditions (see section 7).

Possibility of hazardous reactions Hazardous polymerisation will not occur.

Conditions to avoid

Reacts with strong acids, ammonium salts to product ammonia and causing fire hazard. Could rapidly absorb carbon dioxide & water from air. Contact with moisture will generate heat.

Incompatible materials:

Strong acids
ammonium salts

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Hazardous decomposition products: Potassium oxide & Hydroxide from heating.

11 Toxicological information

Information on toxicological effects

Acute toxicity: Harmful if swallowed.

LD/LC50 values:		
CAS: 1310-58-3 Potassium hydroxide		
Oral	LD50	333 mg/kg (rat) (OECD 425)

Skin Corrosion/Irritation: Causes severe skin burns.
Serious eye damage/irritation: Causes serious eye damage.
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.
Aspiration hazard: Based on available data, the classification criteria are not met.
Additional toxicological information:
Symptoms may include pain, severe local redness, rash, and tissue damage. Eye contact may cause redness, tearing, blurred vision with corneal injury which may result in permanent impairment of vision, even blindness.
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Information on likely routes of exposure:
INHALATION: Respiratory tract irritation may occur.
EYE CONTACT: Severe burns to eyes, redness, tearing, and blurred vision.
SKIN CONTACT: Severe burns to skin, defatting, dermatitis.
INGESTION: Could be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics:
None known

Delayed and immediate effects as well as chronic effects from short and long-term exposure:
None anticipated.
Interactive effects No interactive effects between components are known.

Carcinogenic categories

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

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

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

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

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability This product is completely biodegradable.

Bioaccumulative potential This product does not bioaccumulate.

Mobility in soil No further relevant information available.

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:

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, and local health, safety, and pollution laws.

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	UN1814

UN proper shipping name

DOT	Potassium hydroxide, solution
IMDG, IATA	POTASSIUM HYDROXIDE SOLUTION

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Transport hazard class(es)

DOT



Class 8 Corrosive substances
Label 8
IMDG, IATA



Class 8 Corrosive substances
Label 8

Packing group
DOT, IMDG, IATA II

Environmental hazards:
Not applicable.

Transport/Additional information:
DOT
Quantity limitations On passenger aircraft/rail: 1 L
On cargo aircraft only: 30 L
Limited quantities (LQ) 1L

IMDG
Limited quantities (LQ) 1L
Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

Special precautions for user
Warning: Corrosive substances
Hazard identification number (Kemler code): 80
EMS Number: F-A,S-B
Segregation groups (SGG18) Alkalis
Stowage Category A
Segregation Code SG35 Stow "separated from" SGG1-acids

UN "Model Regulation":
UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II

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15 Regulatory information

TSCA (Toxic Substances Control Act):
The following substances are listed on the TSCA Inventory:

CAS: 7732-18-5	Water
CAS: 1310-58-3	Potassium hydroxide

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.

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.

Date of preparation 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
Corrosive to metals 1: Corrosive to metals – Category 1
Acute toxicity - oral 4: Acute toxicity – Category 4

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Skin corrosion 1A: Skin corrosion/irritation – Category 1A
Eye damage 1: Serious eye damage/eye irritation – Category 1

Sources Data arise from reference works and literature.