

SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Dec 17, 2021

Revision Date: Dec 17, 2021

SECTION 1. Identification of the substance

Product identifiers

Product name: Gmoist HEU

CAS-No.: 1320-51-0

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

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company: CHEMLYTE SOLUTIONS CO., LTD

Address: A1-3-830, XiXi Center, No. 588, Wenyi West Road, Hangzhou 310000,
Zhejiang, China

Telephone: +86-(571)-85061365

Fax : +86-(571)-85060165

Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2. Hazards identification

Classification of the substance or mixture:mixture

Regulation (EC) No.1272/2008	
Hazard classes/Hazard categories	Hazard statement
N/A	N/A

Label elements

Hazard pictogram: Not applicable.

Signal word: Not applicable.

Hazard statements: Not applicable.

Precautionary statement: Not applicable.

Other hazards: Not applicable.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Results of the EDCs assessment:

ED HH Category 1 and 2: Not applicable.

ED ENV Category 1 and 2: Not applicable.

SECTION 3. Composition/information on ingredients

Chemical characterization: Mixtures

Ingredients:

Chemical Name	CAS No.	EINECS No.	Concentration	Classification
Water	7732-18-5	231-791-2	45.0-55.0%	Not Classified
Hydroxyethyl Urea	1320-51-0	215-304-0	45.0-55.0%	Not Classified

SECTION 4. First aid measures

Description of first aid measures

After inhalation: Supply fresh air; consult a doctor in case of emergency.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye(s) for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth with water.

If symptoms persist, consult a doctor. Never give anything by mouth to an unconscious person.

Information for doctors:

Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5. Firefighting measures

Extinguishing media

CO2 powder or water spray. Fight larger fire with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:

No further relevant information available.

Advice for firefighters

Protective equipment:

Wear fully protective suits and mouth respiratory protective devices.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid contact with skin.

Use respiratory protective devices against the effects of fume/dust/aerosol.

Avoid contact with eyes.

Environmental precautions: Do not allow to enter sewer/surface or ground water.

Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material(s) as the waste according to Section 13.

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.

SECTION 7. Handling and storage

Handling:

Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust. Avoid contact with eyes.

Information about fire and explosion protection: Normal measures for preventive fire protection.

Storage:

Requirements to be met by storerooms and receptacles: Store with temperature not higher than 30°C and keep sealed.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Further information about storage conditions:

It shall be stored in a ventilated and dry warehouse with temperature not higher than 30°C and kept sealed.

Specific end use(s): No further relevant information available.

SECTION 8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data.

Control Parameters

Ingredients 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.

DNELs: Data not available.

PNECs: Data not available.

Additional information: The lists valid during the making were used as a basis.

Exposure controls

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure

Personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Suitable respiratory protective devices are recommended.

Protection of hands:

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material is in consideration of the penetration time, rate of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturers. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

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

Eye protection: Safety glasses.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance: Transparent liquid

Color: Colorless

Odor: Almost odorless

Odor threshold: Data not available. pH value (stock solution, 25 °C): 6.0-8.5

Change in condition:

Melting point/Melting range: Data not available.

Freezing point: Data not available.

Boiling point/Boiling range: Data not available.

Flash point: Data not available.

Flammability (solid gaseous): Not flammable.

Auto-ignition temperature: Data not available.

Decomposition temperature: Data not available.

Self-igniting: Not self-igniting.

Explosive properties: Product presents no explosive hazard.

Explosion limits:

Lower: Data not available.

Upper: Data not available.

Oxidizing properties: Data not available.

Vapour pressure: Data not available.

Density: Data not available.

Relative density: Data not available.

Vapour density: Data not available.

Evaporation rate: Data not available.

Solubility in/Miscibility with: Water: Soluble.

Partition coefficient (n-Octanol/water): Data not available.

Viscosity: Dynamic: Data not available.

Kinematic: Data not available.

Other information: No further relevant information available.

SECTION 10. Stability and reactivity

Reactivity: No decomposition if used according to specifications. **Chemical stability:** Stable under recommended storage conditions. **Possibility of hazardous reactions:** No hazardous reactions known. **Conditions to avoid:** No further relevant information available.

Incompatible materials: No further relevant information available. **Hazardous decomposition products:** No hazardous decomposition products known.

SECTION 11. Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant form classification:

1320-51-0 Hydroxyethyl Urea Oral LD50: 2,000 ~3,473 mg/kg bw (rat)

Primary irritant effect

On the skin: Irritating effect possible.

On the eye: Irritating effect possible.

Sensitization: No sensitization possible.

Toxicokinetics, metabolism and distribution: No further relevant information available.

Acute effect (acute toxicity, irritation and corrosivity): No further relevant information available.

Repeated dose toxicity: No further relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity): No further relevant information available.

SECTION 12. Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available. Additional ecological information:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

SECTION 13. Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household wastes.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

SECTION 14. Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number or ID number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Special precautions	Not regulated	Not regulated	Not regulated	Not regulated
Maritime transport in bulk according to IMO instruments	Not regulated	Not regulated	Not regulated	Not regulated

SECTION 15. Regulatory information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable. Other EU regulations: Employment restrictions concerning young people must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Further information

Copyright 2021 Chemlyte Solutions Co., Ltd granted to make unlimited paper copies for internal use only.