Material Safety Data Sheet

WP-HP9 500H

1. General Information

1) Product Name

WP-HP9 500H

2) Recommended use and restriction of use

- Use : Cosmetic ingredients
- Restriction of use : No data

3) Information of Manufacturer / Supplier / Distributor

○ Information of Manufacturer

- Company name : WellPep Co.,Ltd.
- Address : Rm 310, insta1, 204 Convensia-daero, Yeonsu-gu, Incheon, Republic of Korea
- Department : Manufacturing Development
- Tel : +82-32-812-0709
- Fax : +82-32-813-0709
- Emergency telephone number : +82-10-9385-0424
- E-mail : neo@wellpep.co.kr

○ Information of Supplier / Distributor

- Company name :
- Address :
- Emergency telephone number :

2. Hazards and Risks

1) Classification of Hazards and Risks

- N/A

2) Warning label items including precautionary statements

○ Pictogram

- N/A

○ Signal word

- N/A

○ Hazard and Risk statement

- N/A

○ Precautionary statements

1) Precaution

- N/A

2) Response

- N/A

3) Storage

- N/A

4) Disposal

- N/A

3) Other hazards and Risks which are not included in the classification criteria

○ NFPA Level (0 ~ 4 levels)

- Hygiene : 0, Fire : 0, Reactivity : 0

3. Name and content of ingredients

Chemical name	Idioms and Other names	CAS number orIdentification number	Content(%)
Purified water	-	7732-18-5	Up to 100
Hexapeptide-9	-	1228371-11-6	0.05
1,2-Hexanediol	-	6920-22-5	2
Ethylhexylglycerin	-	70445-33-9	0.1

4. Emergency measures

1) When it get into the eye

- Don't rub the eye.
- Take wash the eye using plenty of water during at least 15min.

2) When it put on the skin

- Take off the contaminated clothes and shoes and take water wash skin with soap during at least 15min.
- Wash contaminated clothing thoroughly before reuse.

3) When you inhale it

- If exposed to large amounts of vapor or mist, move to a location in clean air.
- Take necessary measures.

4) When you eat it

- Get medical advice about whether you should induce vomiting.
- Rinse mouth immediately with water.

5) Other physician's precautions

- Inform the contamination situation to the medical team and have them take appropriate protective measures.

5. Measures in the event of fire explosion

1) Proper (and inappropriate) fire extinguishers

- Water spray, powder, carbon dioxide, proper cloth
- Avoid shooting water directly
- In case of fire fighting, wear fire fighting clothing, firefighting helmet, safety shoes, fire fighting gloves, and air respirator.

2) Specific hazards arising from chemicals

- Can be ignited by heat, spark, flame
- The container may explode on heating
- Some can be burned, but it is not easy to ignite
- May cause irritation and poisonous gas in case of fire
- Inhalation of the substance may be harmful
- Some fluids can cause vapor that causes dizziness and suffocation

3) Protective equipment and precautions for fire-fighting measures

- Move container from fire area if you can do it without risk
- Cool the container with enough water until the fire has completely extinguished.
- Keep out of the reach of person who is not staff and prevent entry into dangerous areas.
- Evacuate immediately if there is any sound or if the tank becomes discolored due to fire.
- Find and use appropriate evolutionary methods for your surroundings.
- Vapors or gases may ignite at distant ignition sources and flash back.

6. Accidental Release Measures

A. Personal Precautions

- Do not touch the leaked material. If the worker is able to stop the leak without risk, stop it.
- Moved containers from spill area to safety area.
- Removed all ignition sources.
- Do not flush into spill liquid or spill area directly.

B. Environmental Precautions

- Do not allow spilled material to enter drains or water courses.
- If there is a large amount of leakage, report it to the Ministry of Environment, the Local Environmental Management Office, and the City Province (Environmental Guidance Division).

C. Methods for Containment and Clean Up

- MISCELLANEOUS LEAK: Avoid lowlands and be in the opposite direction of the wind. Build up and manage the levee for the treatment of leaking materials.
- Notify the central government and municipalities about the discharge when exceeding the standard amount.
- Dispose of it by the Waste Management Act (Ministry of Environment).
- Collect spilled material in suitable container for disposal.
- Small spills: Absorb with sand or other non-combustible material.
- Wipe the solvent off.
- Build a levee for further processing.

7. Handling and Storage

A. Handling

- Product residue (vapor, liquid, solid) may remain after emptying of the container. Follow all MSDS, label precautions.
- Refer to engineering controls and personal protective equipment.
- Handle in a well-ventilated area only.
- Use work that can prevent static electricity.
- Do not breathe vapor for long periods or repeatedly.

B. Storage

- Check periodically for leaks.
- Do not use damaged containers.
- Prohibited fire
- Prevent static electricity and keep away from heat sources such as boilers and around flammable materials.

8. Exposure and presonal protection

A. Exposure criteria of Chemicals

○ **Domestic**

- No data available

○ **ACGIH**

- No data available

○ **Biological**

- Not applicable

- The employer shall not install facilities or gases that dissipate gases such as gas, steam, mist, fume or dust to prevent the concentration of these in the air from exceeding the degree harmful to health. Or local exhaust ventilation or full ventilation should be provided.

다. Personal Protection

○ **Respiratory Protection**

- In case of direct exposure or possible exposure to the substance, wear a respirator with a respirator accredited by the KOSHA.
- Respiratory protection is classified from minimum to maximum concentration.
- Consider warning characteristics before use.
- Respiratory mask (direct, compact, for organic compounds)
- Any air-purifying respirator with a full facepiece and an organic vapor canister.
- Unknown concentration or other imminent danger to life or health: Any supplied-air respirator with full facepiece and operated in a pressur demand or other positive-pressure mode in combination with a separate escape supply.

○ **Eye Protection**

- In case of direct exposure to or exposure to this material, Wear safety goggles with a chemical product certified by the KOSHA.
- Install eyewash station and emergency cleaner (shower) near work area.

○ **Hand Protection**

- Wear chemical safety goggles approved by the KOSHA when there is a direct exposure or exposure to the substance.

○ **Body Protection**

- In case of direct exposure to or exposure to this material, Wear chemical safety goggles approved by KOSHA.

9. Physical and Chemical Properties

A. Appearance	
- Appearance	Liquid
- Color	Colorless
B. Odor	Characteristic Odor
C. Odor Threshold	No data available
D. pH	3.0 ~ 6.0
E. Freezing point/Melting point	No data available
F. Initial boiling point and Range	No data available
G. Flash point	No data available
H. Vaporizing velocity	No data available
I. Flammability(Solid, Gas)	No data available
J. Flammability or explosive limits; upper/lower	No data available
K. Vapor pressure	No data available
L. Solubility	No data available
M. Vapor Density	No data available
N. Gravity	No data available
O. N-Octanol/H2O Partition coeficient	No data available
P. Autoignition Temperature	No data available

Q. Decomposition Temperature	No data available
R. Viscosity	No data available
S. Molecular weight	No data available

10. Stability and Reactivity

A. Stability and Reactive Hazard

- Stable during recommended storage and handling.
- Does not cause harmful polymerization reaction.

B. Conditions to Avoid

- Avoid mixing prohibited substances and conditions.

C. Materials to Avoid

- No data available

D. Hazardous Decomposition Products

- No data available

11. Toxicological Information

A. Information for Exposure

○ (Aspiration)

- No data available

○ (Symptoms)

- No data available

○ (Eye·Skin)

- No data available

B. Information for Health Hazard

○ Acute toxicity

*** Oral toxicity**

-[1,2-Hexanediol] : LD50 >2000mg/kg *From: Cosmetic Ingredient Review, June 28, 2011.

*** Percutaneous toxicity**

-[Ethylhexylglycerin] : LD50 >1000mg/L/96hr Oncorhynchus mykiss(ECHA) *From: Cosmetic Ingredient Review, December 19, 2011.

*** Inhalation toxicity**

- No data available

○ Skin corrosive or irritant

- [1,2-Hexanediol] : No irritation to human skin, weak skin irritation to rabbit skin.

○ Severe eye damage or irritation

- [1,2-Hexanediol] : Eye irritation test result (Rabbit): Irritation

○ Respiratory sensitization

- No data available

○ Skin sensitization

- [1,2-Hexanediol] : Guinia pig, not sensitizing

○ Carcinogenicity

*** Notice of Industrial Safety and Health Law and Ministry of Employment and Labor**

- No data available

*** IARC**

- No data available

*** OSHA**

- No data available

*** ACGIH**

- No data available

*** NTP**

- No data available

*** EU CLP**

- No data available

○ Germ cell mutagenicity

- No data available

○ Reproductive toxicity

- No data available

○ Specific target organ toxicity (single exposure)

- No data available

○ Specific target organ toxicity (repeated exposure)

- No data available

○ Inhalation hazard

- No data available

○ **Notice of Ministry of Employment and Labor**

*** Carcinogenicity**

- No data available

*** Germ cell mutagenicity**

- No data available

*** Reproductive toxicity**

- No data available

12. Effect on Environmental

A. Ecotoxicity

○ **Pisces**

- [1,2-Hexanediol] : LC50 1291.099 ㎎/ℓ 96 hr

○ **Shellfish**

- [1,2-Hexanediol]: EC50 599.986 ㎎/ℓ 48 hr

○ **Birds**

- [1,2-Hexanediol] : EC50 161.332 ㎎/ℓ 96 hr

B. Persistence and degradability

○ **Persistence**

-[1,2-Hexanediol] : 0.58 log Kow *From: ECHA

○ **Degradability**

-No data available

C. Biocompatibility

○ Biocompatibility

-[1,2-Hexanediol] : 3.162, *From: EPI SUITE

○ **Biodegradability**

- No data available

D. Soil transfering

- [1,2-Hexanediol] : 3.047 (estimate), * From: EPI SUITE

E. Ozone layer hazard

- Not applicable

F. Other harmful effects

- No data available

13. Disposal Considerations

A. Waste Disposal Methods

- Burning flammability at high temperature.
- For nonflammability, landfill the designated waste in a landfillable managed landfill.
- Stabilize or solidify and to be treated.

B. Caution

- If specified in the Waste Management Law, consider the precautions specified in the regulations.

14. Transport Information

A. UN No.(IMDG CODE/IATA DGR)

- Not applcable

B. UN proper shipping name

- Not applicable

C. Hazard rating in transport

- Not applicable

D. Container rating(IMDG CODE/IATA DGR)

- Not applicable

E. Marine polluants

- Not applicable

F. Special safety actions that the user needs or needs to know about transportation

- According to the Dangerous Goods Safety Management Act when transporting in a local area.
- Packaging and transport in accordance with DOT and other regulations.
- Type of emergency action in case of fire : No data available
- Types of emergency action in case of leakage: No data available

15. Regulatory Information

A. Regulation by the Industrial Safety and Health Act

○ Working environment measuring substance
- Not applicable

○ Exposure standard setting substance
- Not applicable

○ Toxic substances to be controlled
- Not applicable

○ Substances subject to special health check
- Not applicable

○ Prohibited substances(such as manufacturing)
- Not applicable

○ Authorized substances
- Not applicable

○ Specially Controlled Substances
- Not applicable

B. Regulation by Chemical Substance Control Act

○ Toxic substance
- Not applicable

○ Chemicals subject to emissions survey
- Not applicable

○ Accidental substance
- Not applicable

○ Restricted substance
- Not applicable

○ Permitted substance
- Not applicable

○ Prohibited substance
- Not applicable

C. Regulation under the Dangerous Goods Safety Management Act

- Not applicable to dangerous goods

D. Regulation by waste management law

- This product corresponds to wastes other than the designated wastes by the Enforcement Decree of the Waste Management Act [Attached Table 1].

E. Other domestic and foreign regulations

○ Law for the Control of Persistent Organic Pollutants
- Not applicable

○ EU classification information

*** Confirmed classification results**
- Xn; R22Xi;R36

*** Risk phrases**
- R22, R36

*** Safety phrases**
- S2, S26

○ US Administration Information

*** OSHA Rule (29CFR1910.119)**
- Not applicable

*** CERCLA 103 Rule (40CFR302.4)**
- Not applicable

*** EPCRA 302 Rule (40CFR355.30)**
- Not applicable

*** EPCRA 304 Rule (40CFR355.40)**
- Not applicable

*** EPCRA 313 Rule (40CFR372.65)**
- Not applicable

○ Rotterdam Convention Materials
- Not applicable

○ Stockholm Convention Substance

- Not applicable

○ Montreal Protocol Materials

- Not applicable

16. Other Information

A. Source of Data

- This MSDS is prepared in accordance with Article 41 of the Industrial Safety and Health Act and Article 2016-19 of the Ministry of Employment and Labor (standards on the provision of material safety data).
- This MSDS was prepared by based on KOSHA, NITE, ESIS, NLM, SIDS, IPCS and NCIS.

B. First Issue

- 2018-09-03

C. Revision No. and Final Revision Date

- Not applicable

D. Etc

The written GHS-MSDS is based on the MSDS provided by the Korea Occupational Safety and Health Agency (KOSHA), edited and partially revised. It is prepared in accordance with Article 41 of the Industrial Safety and Health Act. For further information, please contact WellPep Co., Ltd.

This information is based on knowledge, data, information and data obtained so far, and the above information may be revised by new information. These precautions are intended for materials that are normally handled. If the product is handled specially, please take appropriate safety measures for its use and usage.