

MATERIAL SAFETY DATA SHEET - MSDS

Efficacious Ingredients * Hygienically Stored & Processed * Convenient Deliveries

Product Name: Hydroxyethyl Cellulose - HEC

INCI: Hydroxyethyl Cellulose

CAS number: 9004-62-0, 7558-79-4, 9005-67-8, 7558-80-7, 7631-99-4, 7732-18-5, 107-22-2, 75-21-8

Recommended Use. Raw Material For Topical Cosmetic Products

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SECTION 1: GENERAL INFORMATION AND CHEMICAL PRODUCT IDENTIFICATION

Chemical Name CAS # 9004-62-0, 7558-79-4, 9005-67-8, 7558-80-7, 7631-99-4, 7732-18-5, 107-22-2, 75-21-8

SECTION 2: HAZARD IDENTIFICATION

Classification:

GHS / CLP

Basis for Classification: Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

USA

OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

Europe

Basis for Classification: According to present data no classification and labeling is required according to Reg. (EC) No 1272/2008.
This product is not classified as hazardous to health or environment according to the CLP regulation.

Labeling Elements:

Pictograph: No hazard symbol
expected

Hazard statements/Signal Word: warning, may
form combustible dust concentration in air.

Precautionary statements: Prevention: Keep dust/air mixtures away from ignition sources

Other hazards which do not result in classification:

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.
By hygroscopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 0; Normal
Flammability: Rating 0, Will
Not Burn
Reactivity: Rating 0, Stable
Other Hazards: None

Results of PBT and vPvB

assessment:

-PBT: Not applicable
-vPvB: Not applicable

SECTION 3: INFORMATION ON INGREDIENTS

Common Name: Hydroxyethyl Cellulose

Generic name:

Chemical Family: Polymer

Description: Mixture: consisting of the following components. This section describes all components of the mixture

<u>Substance</u>	<u>CAS Numbers</u>	<u>Percentage</u>
Hydroxyethylcellulose	9004-62-0	≥ 93%
Disodium Phosphate	7558-79-4	≤ 0.5 %
Polysorbate 60	9005-67-8	≤ 0.5 %
Sodium Phosphate	7558-80-7	≤ 0.10%
Sodium Nitrate	7631-99-4	≤ 7 %
Water/Aqua Glyoxal	7732-18-5	≤ 5%
Ethylene Oxide	107-22-2	≤ 0.01%
	75-21-8	<1 ppm

SECTION 4: FIRST AID MEASURES

General:	In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation:	Move to fresh air from exposure area. Get medical attention for any breathing difficulty.
Skin contact:	Rinse with soap and water. Get medical advice if irritation develops.
Eye contact:	Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.
Ingestion:	Consult with a physician.
Protection of first aiders:	No special protection required.

SECTION 5: EXPLOSION AND FIRE-FIGHTING MEASURES

Fire and explosion hazards:	Not considered to be a fire and explosion hazard
Extinguishing media:	
Suitable:	Water, Dry chemicals, foam and carbon dioxide
Not suitable:	None known
Firefighting:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low area
Protection for fire-fighters:	Boots, gloves, goggles.

SECTION 6: ACCIDENTAL RELEASE/SPILL PROCEDURES

Personal precautions:	Avoid contact with eyes.
	Personal Protective Equipment: -Protective goggles
Environmental precautions:	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system
Methods for cleaning up:	
Recovery:	Pick up free liquid for recycling or disposal. Residual liquid can be

absorbed on an inert material. Sweep or vacuum up any powder and place in a clearly labeled waste container, avoiding dust formation.

Cleaning/Decontamination: Wash non-recoverable remainder with water.

Disposal: For disposal of residues refer to sections 8 & 13

SECTION 7: HANDLING AND STORAGE

Handling

Technical measures:

Measures:

Safe handling advice:

Labeling: Keep out of the reach of children.

For industrial use, only as directed.

Wash hands after use. Avoid storage near feed or food stuff.

Storage

Technical measures:

Recommended Storage Conditions:

Keep container closed.

Store in a dry place at temperatures not exceeding 32°C. Based on stability studies, the optimum storage temperature for maximization of shelf life is 23 - 25°C. However, it may be stored at temperatures between 16 and 32°C if such specific temperature control is not available. Do not freeze. Please refer to stability data for effects heat or cold may have on the specifications of the product.

Incompatible products:

Avoid contact with strong oxidizers.

Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

Packaging: Product may be packaged in normal commercial packaging.

Packaging materials: Recommended - Polypropylene & High-Density Polyethylene

SECTION 8: PERSONAL PROTECTION

Precautionary statements:

Ensure adequate ventilation

Control parameters

Occupational exposure Limits:

France:

Not Determined

ACGIH:

Not Determined

Korea:

Not Determined

UK:

Not Determined

Surveillance procedures:

Not Determined

Engineering measures:

Not Determined

Personal Protective Equipment:

Respiratory protection:

Local exhaust

Hand protection:

Protective gloves made of rubber or neoprene.

Eye protection: Safety glasses.
 Collective emergency equipment: Eye fountain.
 Skin and Body Protection: Suitable protective clothing
 Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granules, powder
Color (Gardner):	Off White
Odour:	Odourless
pH	6.5 – 8.5 Concentration: 1% (as aqueous solution)
Refractive Index (25°C):	Not applicable
Heavy Metals:	< 20 ppm
Lead:	< 10 ppm
Arsenic:	< 2 ppm
Cadmium:	< 1 ppm
Microbial Content:	< 100 CFU/g; No pathogens
Yeast & Mold:	< 100 CFU/g
Gram Negative Bacteria:	0 CFU/g
Specific gravity	Not applicable
Vapor density:	Not applicable
Boiling Point:	Not determined
Freezing Point:	Not determined
Melting point:	Not applicable
Flash point:	Not applicable
Oxidizing properties:	Non oxidizing material according to EC criteria.
Solubility:	
In water:	Soluble, limited by viscosity
In organic solvents:	Not determined
Log P:	Not determined

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life.
Hazardous reactions:	None known
Conditions to avoid:	No dangerous reactions known under use of normal conditions. Avoid extreme heat.
Materials to avoid:	Keep away from heat, flames, sparks or other ignition sources.
Hazardous decomposition products:	None known

SECTION 11: TOXICOLOGICAL INFORMATION

Ingestion:	Not Determined
Dermal:	Not Determined
Ocular:	Not Determined
Inhalation:	Not Determined

Acute toxicity data: Not Determined

Sensitization: Non-Primary Sensitizers

Repeated dose toxicity: No known effects
Subacute to chronic toxicity: Not Determined

Additional Toxicological Information: This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Specific effects:

Carcinogenicity:	No known effects
Mutagenicity:	No known effects
Reproductive toxicity:	No known effects
Neuro-toxicity:	No known effects

For more information: Does not present any particular risk on handling under normal conditions of good occupational hygiene practice.

This product has not been tested for the following:

- Primary cutaneous and corrosive irritation
- Acute oral toxicity
- Mutagenicity/genotoxicity

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Effects on the aquatic environment: Not Determined

Biodegradability:
Persistence: Not Determined

Bioaccumulation:
Octanol / water partition coefficient: Not Determined

Mobility:
Precipitation:
Expected behavior of the product: Ultimate destination of the product: Soil & sediment.

Other Adverse Effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

Residues from product

Prohibition: Do not allow the product to be released into the Environment.

Destruction/Disposal:
regulations: Dispose of in accordance with relevant local

Contaminated packaging

Decontamination/cleaning:
prior to disposal. Destruction/Disposal: Cleaning is not required

Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: None

UN Shipping Name: None

Transport Hazard Class: Not classified as dangerous for transport

Land (rail/road):
ADR/RID: Material is not restrictive for land transport and is not regulated by

Sea:
IMO/IMDG: Material is not restrictive for sea transport and is not regulated by

Air:
ICAO/IATA: Material is not restrictive for air transport and is not regulated by

Marine Pollutant: No

Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers
This material is not dangerous or hazardous

Special Precautions for User: None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15: REGULATORY INFORMATION

Labeling:

EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

Further regulations

United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40 Workplace Exposure Limits (revised annually)

Korea regulations: Industrial safety and hygiene regulation: No Hazardous material control regulation: No Fire prevention regulation: No

Other regulations:

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

SECTION 16: OTHER INFORMATION

DISCLAIMER

Technical information and suggestions for use including any formulations and / or procedures are believed to be correct. However, this does not constitute a guarantee of the accuracy of the information contained herein. Confirming tests in your own laboratory or facility are recommended. This information is for general research purposes only and is not a representation or warranty of any kind. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use. The information contained in this certificate of analysis and material safety data sheet are obtained from current and reliable sources. As the use(s) of this product is outside the control of skin foodie, no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained.

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