

MATERIAL SAFETY DATA SHEET

Approval Date: 11/08/2007

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: HP-55 HPMCP

Manufacturer/Supplier: Gustav Parmentier GmbH

MSDS Prepared by: Product Safety Department, Gustav Parmentier GmbH .

For Emergency Health, Safety & Environmental Information, call: Gustav Parmentier GmbH,
Frankfurt am Main, Tel. 069 561034 (7-21 h)

For Other Information, call Gustav Parmentier GmbH

Chemical Name: hydroxypropyl methylcellulose phthalate

Molecular Formula: not applicable

Molecular Weight: not applicable

Product Use: excipient for pharmaceuticals

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

>98 hydroxypropyl methylcellulose phthalate (009050-31-1)

<2 water (007732-18-5)

3. HAZARDS IDENTIFICATION

CAUTION! POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES

HMIS Hazard Ratings: Health - 1, Flammability - 1, Chemical Reactivity - 0

NFPA Hazard Ratings: Health - 1, Flammability - 1, Chemical Reactivity - 0

NOTE: HMIS and NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms persist.

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Skin: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Material is of sufficiently low toxicity that induction of vomiting should not be necessary.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms persist.

Skin: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Material is of sufficiently low toxicity that induction of vomiting should not be necessary.

5. FIRE FIGHTING MEASURES

Extinguishing Media: water spray, dry chemical

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: carbon dioxide, carbon monoxide

Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

Sweep or scoop up and remove.

7. HANDLING AND STORAGE

No special precautionary measures should be needed under anticipated conditions of use.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials. Minimize dust generation and accumulation. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

Storage: Keep container closed. Protect from contamination. Do not store or ship together with toxic substances, odorous substances

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV): not established

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OSHA (USA) Permissible Exposure Limit (PEL): not established

Ventilation: Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating, drying, etc.

Respiratory Protection: None should be needed.

Eye Protection: It is a good industrial hygiene practice to minimize eye contact.

Skin Protection: It is a good industrial hygiene practice to minimize skin contact.

Recommended Decontamination Facilities: eye bath, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: solid (powder)

Color: white

Odor: odorless

Odor Threshold: not applicable

Specific Gravity at 25°C (77°F) (water = 1): <1

- Vapor Pressure: negligible
 - Vapor Density (Air = 1): not applicable
 - Evaporation Rate: not applicable
 - Volatile Fraction by Weight: 1 %
 - Boils with Decomposition: 140°C (284°F)
 - Melting Point: >145°C (>293°F)
 - Viscosity: not available
 - Solubility in Water: 100 %
 - pH: >5.5
 - Octanol/Water Partition Coefficient: not available
 - Flash Point: not applicable, combustible solid
 - Lower Explosive Limit: not available
 - Upper Explosive Limit: not available
 - Autoignition Temperature: not available
 - Sensitivity to Mechanical Impact: insensitive
 - Explosive Power: not available -
 - Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.
 - Explosive Power: not available -
 - Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.
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10. STABILITY AND REACTIVITY

Stability: stable

Incompatibility: Material can react with strong oxidizing agents.

Hazardous Polymerization: will not occur

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11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Low hazard for usual industrial handling or commercial handling by trained personnel.

Eyes: Low hazard for usual industrial handling or commercial handling by trained personnel.

Skin: Low hazard for usual industrial handling or commereial handling by trained personnel.

Ingestion: Expected to be a low ingestion hazard.

Acute Toxicity Data:

Oral LD-50 (rat): >15 g/kg

Definitions for the following section(s): LOEL = lowest-observed-effect level, NOAEL = no observed-adverse-effect level, NOEL = no-observed-effect level.

Subchronic Toxicity Data:

Oral study (6 months, rat): 6 g/kg/day (highest dose tested g/kg/day);
NOEL = 6 g/kg/day

12. ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

- DOT (USA) Classification: not regulated
 - TDG (Canada) Classification: not regulated
 - International Civil Aviation Organization (ICAO) Classification: not regulated
 - International Maritime Dangerous Goods (IMDG) Classification: not regulated
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15. REGULATORY INFORMATION

- This document has been prepared in accordance with the MSDS requirements of the OSHA
- Hazard Communication Standard 29 CFR 1910.1200. - OSHA hazardous chemical(s): none

- Material(s) known to the State of California to cause cancer: none - Material(s) known to the State of California to cause adverse reproductive effects: none -
- Massachusetts Substance List: none
- New Jersey Workplace Hazardous Substance List: none
- Pennsylvania Hazardous Substance List: none

- This document has been prepared in accordance with the MSDS requirements of the WHMIS Controlled Products Regulation.

- WHMIS (Canada) Ingredient Disclosure List: none
- WHMIS (Canada) Status: non controlled

- Carcinogenicity Classification (components present at 0.1% or more):
 - International Agency for Research on Cancer (IARC): not listed
 - American Conference of Governmental Industrial Hygienists (ACGIH): not listed
 - National Toxicology Program (NTP): not listed
 - Occupational Safety and Health Administration (OSHA): not listed

- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: none
- SARA (U.S.A.) Sections 311 and 312 hazard classification(s): not applicable

- US Toxic Substances Control Act (TSCA): This product is listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

- Canadian Environmental Protection Act (CEPA) and Domestic Substances List (DSL): One or more components of this product are not listed on the DSL. In Canada, its use is restricted to research and development purposes only.

- European Inventory of Existing Commercial Chemical Substances (EINECS): One or more components or reactants of this product are not listed on EINECS. In the European Community, its use is restricted to research and development purposes only.

- Australian Inventory of Chemical Substances (AICS) and National Industrial Chemicals Notification and Assessment Scheme (NICNAS): One or more components of this product are not listed on AICS. In Australia, its use is restricted to research and development purposes only.

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16. OTHER INFORMATION

US/Canadian Label Statements:

CAUTION! POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES

Minimize dust generation and accumulation.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

CAUTION: FOR MANUFACTURING, PROCESSING OR REPACKING BY TRAINED PERSONNEL

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.