

**Safety Data Sheet**

30-1996

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Hydroxypropyl Cellulose NF (1500-3000 CPS, 1%, 25C)
Commercial Name Klucel HF Pharm, Hydroxypropylcellulose
Product Use Pharmaceutical
Restrictions On Use Not available
Product Code 30-1996
Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Combustible Dust.
CFR 1910.1200
Signal Word WARNING
Hazard Statement(s) May form combustible dust concentrations in air
Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Keep dust/air mixtures away from ignition sources.
Response Not available
Storage Not available
Disposal Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Mixture
Components Hydroxypropyl Cellulose
% By Weight 100
CAS# 9004-64-2
Molecular Weight Not available.
Chemical Formula n/a
Synonym(s) n/a

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Hydroxypropyl Cellulose	9004-64-2	100	Not available.	n/a

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Section 4: First-Aid Measures

Inhalation	If breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
Skin Contact	First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
Eye Contact	Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
Ingestion	Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Symptoms/Effects	
Acute	No data available
Delayed	No data available
Immediate Medical Attention	
Treat symptomatically.	

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Carbon dioxide and carbon monoxide

Firefighters Special Equipment and Precautions

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire, wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Environmental precautions: Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Advice on protection against fire and explosion: Take measures to prevent the build up of electrostatic charge. Provide appropriate exhaust ventilation at places where dust is formed. Advice on safe handling: Avoid dust formation. Ensure all equipment is electrically grounded and bonded before beginning transfer operations. The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres. Smoking, eating, and drinking should be prohibited in the application area. For personal protection, see section 8. Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards. For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: "Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing, and Handling of Combustible Particulate Solids". Conditions for safe storage: No smoking. Materials to avoid: No materials to be especially mentioned. Further information on storage stability: Keep in a dry place.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Contains no substances with occupational exposure limit values.
Engineering Controls	Provide appropriate exhaust ventilation at places where dust is formed. General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal Protection

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter within the capabilities of the respirator/filter combination. Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator. Hand protection Material : butyl-rubber Break through time : 480 min Glove thickness : > 0.5 mm Remarks: The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Eye protection : Safety glasses Skin and body protection : Work uniform or laboratory coat. Hygiene measures : General industrial hygiene practice.

Section 9: Physical and Chemical Properties

Appearance	off-white granules, powder solid		
Odor	Odorless.		
Odor Threshold	Not available		
Melting Point	Not available.	pH	5.0 - 8.5 Concentration: 2 % (as aq)
Freezing Point	Not available	Vapor Pressure	Not available.
Boiling Point/Range	Not available.	Vapor Density	> 1 g/cm ³ Bulk density 500 kg/m ³
Decomposition temperature	Not available	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	420 °C
Flammability	Combustible Dust	Flammability or Explosive Limits:	
		Lower	30 g/m ³
		Upper	Not available
Solubility(ies)	Insoluble > 45 °C water		
Other	Softening point: 212 - 302 °F / 100 - 150 °C		

Section 10: Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical Stability	Stable under normal conditions.
Hazardous Polymerization	Dust may form explosive mixture in air.
Conditions to Avoid	Protect from frost, heat and sunlight.
Incompatible Materials	Oxidizing agents
Hazardous Decomposition Products	Carbon dioxide and carbon monoxide

Section 11: Toxicological Information**RTECS** n/a**Acute Toxicity**

Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.

Skin Corrosion/Irritation

No data available

Serious Eye Damage/Irritation

No data available

Respiratory or Skin Sensitization

No data available

Germ Cell Mutagenicity

No data available

Carcinogenicity

Not listed as a carcinogen

Reproductive Toxicity

Not available

Routes of Entry

Inhalation. Skin Contact. Eye Contact. Ingestion.

Symptoms Related to Exposure

Not available

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Potential Health Effects

Not available.

Target Organ(s) No data**Section 12: Ecological Information****Ecotoxicity**

Not available.

Persistence and Degradability

Not readily biodegradable.

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

Not available

Disposal of Container

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

Not dangerous goods.

Section 15: Regulatory Information**Regulations**

TSCA list No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements. EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ. SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ. SARA 311/312 Hazards : Combustible Dust SARA 302 : This material does not contain any components with a section 302 EHS TPQ. SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. US State Regulations Pennsylvania Right To Know HYDROXYPROPYLCELLULOSE 9004-64-2 New Jersey Right To Know HYDROXYPROPYLCELLULOSE 9004-64-2 California Prop. 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other

Not available.

Section 16: Other Information

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.