SECTION 1: Identification of the substance/mixture

1.1. Product identifier
Product form: Substance
Substance name: Hydroxyethyl-cellulose
CAS No.: 9004-62-0
Product code: LW-HEC
Synonyms: Hydroxyethyl Ether

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Laboratory chemicals, Manufacture of substances

1.3. Emergency telephone number
Emergency number: 1.800.424.9300 (USA)
+1.703.527.3887 (INT)

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture
GHS-US classification
Not a hazardous substance or mixture.

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US): None
Signal word (GHS-US): None
Hazard statements (GHS-US): None
Precautionary statements (GHS-US): None

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Substance type: Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Concentration</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroxyethyl Cellulose</td>
<td>(CAS No.) 9004-62-0</td>
<td>&gt;= 83.0 - &lt;= 95.0 %</td>
<td>None</td>
</tr>
<tr>
<td>Sodium Acetate</td>
<td>(CAS No.) 127-09-3</td>
<td>&lt;= 9.0 %</td>
<td>None</td>
</tr>
<tr>
<td>Water</td>
<td>(CAS No.) 7732-18-5</td>
<td>&lt;= 5.0 %</td>
<td>None</td>
</tr>
</tbody>
</table>
3.2. OSHA Classification
No ingredients are hazardous according to OSHA criteria.
No components need to be disclosed according to the applicable regulations.

SECTION 4: Description of first aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
First-aid measures after skin contact: Wash off with soap and plenty of water.
First-aid measures after eye contact: Flush eyes with water as a precaution.
First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed
Not a hazardous substance or mixture.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture
Carbon oxides

5.3. Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4. More Information
No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapors, mist or gas.
For personal protection see section 8.

6.2. Environmental precautions
Do not let product enter drains.

6.3. Methods and material for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Keep in a dry place.

7.3. Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Contains no substances with occupational exposure limit values.

8.2. Exposure controls
Appropriate engineering controls : General industrial hygiene practice.

8.3. Personal protective equipment
Eye protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

   Full contact
   Material: Nitrile rubber
   Minimum layer thickness: 0.11 mm
   Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Form: powder
Color: off-white

Odor
No data available

Odor Threshold
No data available

pH
No data available

Melting point/freezing point
No data available

Initial boiling point and boiling range
No data available
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Flash point : No data available
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper/lower flammability or explosive limits : No data available
Vapor pressure : No data available
Vapor density : No data available
Relative density : No data available
Water solubility : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information
Solubility in other solvents : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
Strong oxidizing agents

10.6. Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity: no data available  
Inhalation: no data available  
Dermal: no data available  
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**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity (single exposure): No data available

Specific target organ toxicity (repeated exposure): No data available

Aspiration hazard: No data available

**SECTION 12: Ecological information**

**12.1. Toxicity**
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no data available

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product : Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging : Dispose of as unused product.

SECTION 14: Transport information

DOT (US) : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
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.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
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Cellulose, 2-hydroxyethyl ether  CAS-No.  Revision Date
9004-62-0

New Jersey Right To Know Components
Cellulose, 2-hydroxyethyl ether  CAS-No.  Revision Date
9004-62-0

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

HMIS Rating
Health Hazard : 0
Chronic Health Hazard :
Flammability : 0
Physical Hazard : 0

NFPA Rating
Health hazard : 0
Fire Hazard : 0
Reactivity Hazard : 0

Further Information
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