
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product identifier

Name of Product:	Kimicell KEC100000B (Hydroxyethyl cellulose)
Product description	The product Molar substituting on degree (MS) range is 2.0-2.5
REACH Reg. No.:	01-2119432402-53-0207 for the monomer ethylene oxide.
CAS No.:	9004-62-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: HEC is mainly used as adhesive **protective** colloid, thickener and stabilizing agent, rheology modifier for paints and varnishes, building materials, adhesives, printing inks, cosmetic products, detergents and maintenance products, paper industry, textile industry, and food industry.

Uses advised against: No uses advised against.

1.3 Details of the Manufacturer / Distributor: Kimix Chemical Co., Ltd. Add: Room No.2805, Building A, Hangzhou Forte One Center, No.1243 Moganshan Road, Hangzhou 310011, China
Phone +86 571 8839 2710, Fax +86 571 8839 0023
Internet: www.kimix.com.cn
Email: technical@kimix.com.cn

Advice Mr. Lumin Shi

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008[CLP]

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

Classification according to Council Directive 67/548/EEC [DSD]

This product does not meet the criteria for classification in any hazard class according to Directive 67/548/EEC on classification, labeling and packaging of substances.

Additional information

No information available.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]

No label information available. The product is not classified as hazardous under Regulation (EC) No 1272/2008 [CLP/GHS].

Supplemental Hazard information (EUH):

No information available.

2.3 Other hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance information

Name of Product	CAS No.	EC No.	Classification according to DSD	% (w/w)
Kimicell HEC (Hydroxyethyl cellulose)	9004-62-0	Not available	Not classified	100

4. FIRST AID MEASURES

4.1 Description of first aid measures

General notes: In all cases of doubt, or when symptoms persist, seek medical attention.

Following inhalation:

If breathed in, move person into fresh air. If not breathing give artificial respiration

Following skin contact:

Wash off with soap and plenty of water.

Following eye contact:

Flush eyes with water as a precaution.

Following ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Notes for the doctor:

Treat symptomatically and supportively.

Treatment may vary with condition of victim and specifics of incident.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of the immediate medical attention and special treatment needed

Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Attending physician should treat exposed patients symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, dry sand, extinguishing powder, foam, carbon dioxide.

Unsuitable extinguishing media:

No limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not available.

5.3 Advice for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Seek immediate cover in case of sudden release and raising of large quantities of dust. If possible, take container out of dangerous zone. Shut off sources of ignition.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Wear a dust mask. Use breathing apparatus if exposed to vapours/sust/aerosol.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3 Methods and material for containment and cleaning up

Carefully sweep up, gather and remove. Avoid dust formation. Afterwards ventilate area and wash spill site.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not leave container open. Sufficient ventilation must be guaranteed for refilling, transfer, or open use. Fill only into labeled container. Avoid the formation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Storage temperature: Without any limitation. Store 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values:

There are no currently occupational exposure limit values established for the substance.

8.2 Exposure controls

Appropriate engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal protective equipment:

Eye and face protection: Use equipment for eye protection tested and approved under appropriate government standards such as 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks.

Environmental exposure controls:

Do not allow material to be released to the environment without the proper governmental permits.

Industrial hygiene:

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance:	Powder
Colour:	White or light yellow
Odour:	Odourless
pH:	6.0 – 8.5
Melting point:	No data available.
Boiling point:	No data available.
Density:	0.35 - 0.61 g/cm ³
Vapour pressure:	No data available.
Partition coefficient (n -octanol/water):	No data available.
Solubility(ies):	HEC can dissolve in both cool and hot water while it does not deposit when in hot or boiling water showing large range of non-gelatin capacity.
Flash point:	No data available.
Auto-ignition temperature:	> 360 °C (IFA)
Flammability:	No data available.
Decomposition temperature:	205 – 210 °C
Explosive properties:	No data available.
Oxidising properties:	No data available.

Evaporation rate :

No data available.

Viscosity:

42000-48000 mPa.s, 2% solution, 20 °C

9.2 Other information

No data available.

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

Combustible solid.

10.4 Conditions to avoid

Moisture.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution

No relevant information available.

11.2 Information on toxicological effects

Acute toxicity: No data available.

Skin corrosion/irritation:

Skin, rabbit: no data available.

Serious eye damage/irritation:

Eyes, rabbit: no data available.

Respiratory or skin sensitization:

Guinea pig maximization test: no data available.

CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):

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

STOT-single exposure and repeated exposure:

No data available.

Additional information:

No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity to fish: No data available.

Acute toxicity to daphnia: No data available.

Acute toxicity to algae: No data available.

Acute toxicity to bacteria: No data available.

12.2 Persistence and degradability

Generally slowly biodegradation.(HSDB)

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Non-hazardous waste according to Waste Catalogue Ordinance (AVV).

If there is no way of recycling it must be disposed of in compliance with the respective national and local regulations.

14. TRANSPORT INFORMATION

14.1 Land transport (ADR/RID/GGVSE)

This product is not regulated as a hazardous material or dangerous goods for transportation.

14.2 Sea transport (IMDG-Code/GGVSee)

This product is not regulated as a hazardous material or dangerous goods for transportation.

14.3 Air transport (ICAO-TI/IATA-DGR)

This product is not regulated as a hazardous material or dangerous goods for transportation.

14.4 Additional information

No data available.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulation:

Authorisations: No information available.

Restrictions on use: No information available.

EINECS:	This substance is not listed in the inventory.
DSD (67/548/EEC):	This substance is not listed in the Annex I.
Other chemical regulation:	
USA - TSCA:	This substance is listed in the inventory.
Canada - DSL:	This substance is listed in the inventory.
Australia - AICS:	This substance is listed in the inventory.
Korea - ECL:	This substance is listed in the inventory.
Japan - ENCS:	This substance is listed in the inventory.
China - IECSC:	This substance is listed in the inventory.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION

16.1 Revision Information:

Date of the previous revision: Not applicable.

Date of this revision: 01/05/2012.

Revision summary: The first new SDS

16.2 Abbreviations and acronyms

CLP:	EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
EINECS:	European Inventory of Existing Commercial Chemical Substances.
RID:	European Rail Transport.
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
OSHA:	The United States Occupational Safety and Health Administration.
TSCA:	Toxic Substances Control Act, The American chemical inventory.
DSD:	Dangerous Substance Directive (67/548/EEC).
IECSC:	Inventory of existing chemical substances in China.
DSL:	Domestic Substances List, The Canadian chemical inventory.
AICS:	The Australian Inventory of Chemical Substances.
ECL:	Existing Chemicals List, the Korean chemical inventory.
ENCS:	Japanese Existing and New Chemical Substances.

16.3 Key literature references and sources for data

IFA GESTIS-database on hazardous substances.

HSDB: Hazardous Substances Data Bank.

16.4 Relevant R-phrases and H-statements

R-phrases (code and full text):

No information available. The product is not classified as hazardous under Council Directive 67/548/EEC.

H-statements (code and full text):

No information available. The product is not classified as hazardous under Council Directive 67/548/EEC.

16.5 Training advice

Provide adequate information, instruction and training for operators.

16.6 Declare to reader

The information in this Safety Data Sheet (SDS) was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. According to REACH Article 31(5), the SDS shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market, unless the recipient Member State(s) concerned provide otherwise. It should also be noted that this SDS is applicable to the countries with English as an official language.
