

MATERIAL SAFETY DATA SHEET**1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** REFINED KAPPA CARRAGEENAN**CAS#:** 9000-07-1**CI#:** Not available**SYNONYM:****Chemical Name:** Not available**Chemical Formula:** Not available**CONTACT INFORMATION:****ZHEJIANG TOP HYDROCOLLOIDS CO., LTD.**2299 Xinggong Road, Economic Development Zone, Pinghu 314200,
Zhejiang Province, P.R. China .**FOR MORE INFORMATION CALL:**

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For and on behalf
浙江上方生
Zhejiang Top**2: COMPOSITION AND INFORMATION ON INGREDIENTS**

INGREDIENT NAME	CAS#	% BY WEIGHT
CARRAGEENAN	9000-07-1	67%

TOXICOLOGICAL DATA ON INGREDIENTS: Not applicable.**3: HAZARDS IDENTIFICATION****POTENTIAL ACUTE HEALTH EFFECTS:**

Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.

POTENTIAL CHRONIC HEALTH EFFECTS:

Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant).

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

4: FIRST AID MEASURES

EYE CONTACT: No know effect on eye contact, rinse with water for a few minutes.

SKIN CONTACT: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

SERIOUS SKIN CONTACT: Not available.

INHALATION: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

SERIOUS INHALATION: Not available.

INGESTION: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

SERIOUS INGESTION: Not available.

5: FIRE AND EXPLOSION DATA

FLAMMABILITY OF THE PRODUCT: May be combustible at high temperature.

AUTO-IGNITION TEMPERATURE: Not available.

FLASH POINTS: Not available.

FLAMMABLE LIMITS: Not available.

PRODUCTS OF COMBUSTION: Not available.

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: Not available.

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

FIRE FIGHTING MEDIA AND INSTRUCTIONS:

SMALL FIRE: Use dry chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

SPECIAL REMARKS ON FIRE HAZARDS: Not available.

SPECIAL REMARKS ON EXPLOSION HAZARDS: Not available.

6: ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

LARGE SPILL:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuate through the sanitary system.

7: HANDLING AND STORAGE

PRECAUTIONS: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing in case of insufficient ventilation, wear suitable respiratory equipment if you feel unwell, seek medical attention and show the label when possible.

STORAGE: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

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8:EXPOSURE CONTROLS/PERSONAL PROTECION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

PERSONAL PROTECTION: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved / certified respirator of equivalent. Gloves.

PERSONAL PROTECTON IN CASE OF A LARGE SPILL: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

EXPOSURE LIMITS: Not available.

9:PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AND APPEARANCE: Solid.

ODOR: Not available.

TASTE: Not available.

MOLECULAR WEIGHT: Not available.

COLOR: Not available.

PH (1% solution/water): Not available.

BOILING POINT: Not available.

MELTING POINT: Not available.

CRITICAL TEMPERATURE: Not available.

SPECIFIC GRAVITY: Not available.

VAPOR DENSITY: Not available.

VAPOR PRESSURE: Not available.

VOLATILITY: Not available.

ODOR THRESHOLD: Not available.

WATER/OIL DIST. COEFF.: Not available.

IONICITY (IN WATER): Not available.

DISPERSION PROPERTIES: Not available.

SOLUBILITY: Not available.

10:STABILITY AND REACTIVITY DATA

STABILITY: The product is stable.

INSTABILITY TEMPERATURE: Not available.

CONDITIONS OF INSTABILITY: Not available.

INCOMPATIBILTIIY WITH VARIOUS SUBSTANCES: Not available.

CORROSIVITY: Non-corrosive in presence of glass.

SPECIAL REMARKS ON REACTIVITY: Not available.

SPECIAL REMARKS ON CORROSIVITY: Not available.

POLYMERIZATION: NO.

11:TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Inhalation.

TOXICITY TO ANIMALS:

LD50: Not available.

LC50: Not available.

CHRONIC EFFECTS ON HUMANS: Not available.

OTHER TOXIC EFFECTS ON HUMANS:

Hazardous in case of inhalation.

Slightly hazardous in case of skin contact (irritant), of ingestion.

SPECIAL REMARKS ON TOXICITY TO ANIMALS: Not available.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: Not available.

SEPCIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS: Not available.

12:ECOLOGICAL INFORMATION

ECOTOXICITY: Not available.

BOD5 AND COD: Not available.

PRODUCTS OF BIODEGRADATION:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: The products of degradation are more toxic.

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: Not available.

13:DISPOSAL CONSIDERATIONS

IS THE UNUSED PRODUCT A HAZARDOUS WASTE SUBSTANCES LIST OF COUNTRY HAZARDOUS WASTE IF DISCARDED? No.

OTHER DISPOSAL CONSIDERATIONS: Disposal must be made in accordance with all applicable local regulations.

14.TRANSPORT INFORMATION

U.S. DOT: Not listed in Title 49 of the U.S. Code of Federal Regulations as a hazardous material.

UN (IMO/IMDG): Not applicable.

MARPO DESIGNATION: None.

SPECIAL PROVISINOS FOR TRANSPORT: Not applicable.

15.OTHER REGULATORY INFORMATON

FEDERAL AND STATE REGULATIONS:

Pennsylvania RTK: Carrageenan

Massachusetts RTK: Carrageenan

TSCA 8(b) inventory: Carrageenan

OTHER REGULATIONS: Not available.

OTHER CLASSIFICATIONS:

WHMIS(Canada): Not controlled under WHMIS(Canada).

DSCL(EEC): The product is not classified according to the EU regulations.

HMIS(U.S.A.):

Health hazard: 1

Fire Hazard: 1

Reactivity: 0

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Personal Protection: E

NATIONAL FIRE PROTECTION ASSOCIATION(U.S.A):

Health: 1

Flammability: 1

Reactivity: 0

Protective Equipment:

Gloves. Lab Coat. Dust respirator. Be sure to use an
Approved/certified respirator or
Equivalent
Safety glasses.

16:OTHER INFORMANTION

REFERENCES: Not available.

OTHER SPECIAL CONSIDERATIONS: Not available.

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For and on behalf of
浙江上方生物科技有限公司
Zhejiang Top Hydrocolloids Co., Ltd.

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Authorized Signature(s)

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