Safety Data Sheet



SDS No. : 30107ES

Revision : 2

Prepared Date : January 16, 2020

1. Product and company identification

Product name YMC-Triart Prep C8-S

Manufacturer YMC CO., LTD.

Quality Assurance Dept.

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Material Uses Research & Development, Industry use

2. Hazards identification

GHS Classification N/E Hazard symbol N/E

Emergency overview Low hazard and toxic under usual usage. If contact with skin or eyes, physical stimulation may occur.

Note; This product contains synthetic amorphous silica, not to be confused with crystalline silica. Amorphous silica may cause irritation to skin, eye and respiratory tract. These information are based on non-synthesis silica gel. Synthesis silica gel has not

been investigated for health effects.

Remarks < Personal precaution>

Avoid exposure - obtain and understand special instructions before use. Keep away from heat, sparks and open flame. Wear appropriate protective equipment such as gloves, safety glasses, lab coat. Avoid prolonged contact with skin and breathing of vapor or spray mist. Do not eat, drink or smoke before handling the product. Wash hands thoroughly after handling the product.

<First-aid>

EYE CONTACT: Immediately flush eyes with plenty of water for at least 10 minutes, lifting the lids occasionally. Check for and remove contact lenses, if possible./SKIN CONTACT: Remove contaminated clothing and shoes. Wash with plenty of water.

/EXPOSURE OR POSSIBLE EXPOSURE: Seek medical attention.

<Storage>

Store in a cool dry place. Keep tightly closed. Protect from sunlight, high temperature and moisture.

N/E

<Disposal>

Dispose of the product and containers via a licensed waste disposal contractor.

Other toxicity N/A

3. Composition/Information on ingredients

Chemical Name Hybrid organic/inorganic gel with chemically bonded phase ligand

Ingredient Chemical Name Chemical Formula % by weight CAS No

Hybrid organic/inorganic gel with

chemically bonded phase ligand

100

N/E

First-aid measures INHALATION Remove victim to fresh air and lay in position to secure breathing. Seek medical attention immediately. EYE CONTACT Immediately flush eyes with plenty of water for at least 10 minutes, lifting the lids occasionally. Check for and remove contact lenses, if possible. Seek medical attention immediately. SKIN CONTACT Flush thoroughly with a large amount of water. Immediately remove contaminated clothing. Seek medical attention if needed. INGESTION Wash mouth with plenty of water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention immediately. First Aid Instructions Wear appropriate protective equipment such as gloves, safety glasses, etc. when administering first aid. Notes to Physician None 5. Fire-fighting measures Extinguishing media This material is non-flammable. If surrounding is firing, follow appropriate fire fighting procedures. Extinguishing media to be avoided Unusual hazards None Keep personnel removed and upwind of any fire and isolate the area. Cool surrounded area with water spray to prevent increasing Special fire-fighting procedures temperature of equipment and containers. Take appropriate measures to avoid discharging the effluent into the environment. Protection of fire-fighters Use appropriate protection wear and glasses while fire fighting. 6. Accidental release measures Personal precaution Handling equipment should be designed to keep airborne dust to minimum. Shovel up or sweep with a lot of water. It should be / Personal protective cleaned from the windward, and should be evacuated from the leeward. Under dusty conditions wear dust musk to avoid equipment and Emergency inhalation. measures Environmental precautions Avoid dispersal of spilled material and runoff into the soil, waterways and drains. Method of containment Stop discharge. Transport containers from the area after confirming their safe handling. and cleanup Dilute spill with water and wipe, or absorb with incombustible material such as sand or diatom earth, and collect in suitable containers (e.g. stainless steel or plastic). Use appropriate procedures to dispose the spilled material. See section 13. 7. Handling and storage Handling <General handling precautions> Always wear proper protective equipment such as protective gloves and goggles/mask when handling. Avoid eye, skin, mucous membrane and clothing contact. Avoid breathing vapor or mist. Do not eat, drink or smoke in areas handling the product including storage, work areas. Keep away from all sources of ignition such as sparks, flame and heat. Wash thoroughly after handling. <Ventilation>

Use only in a well-ventilated area equipped with local exhaust ventilation.

<Other precautions>

Users of this product must be properly trained for safety measures.

Storage <Storage requirement>

Store in a cool dry place. Keep tightly closed. Protect from sunlight, high temperature and moisture.

<Container>

Keep tightly closed to protect quality with shipping bottle, polyethylene or glass bottles.

8. Exposure control /Personal protection

Engineering controls Use process enclosures or well-ventilated facilities with adequate general or local exhaust ventilation. Facilities storing or utilizing

this material should be equipped with an eyewash facility and a safety shower. Use antistatic device and explosion proof

equipment to prevent fire or explosion.

Concentration limits Not determined

Exposure limits OSHA PEL-TWA 6mg/m³ (as a particle. No regulation except for particles.)

ACGIH TLV-TWA 10mg/m³ (as a particle.) 6mg/m³ (as silica gel.)

Personal protective < Respiratory protection>

equipment Dust musk. Respirator selection must be based on known or anticipated exposure levels.

<Protective Gloves>
 Vinyl gloves
<Eye protection>
 Goggle
<Skin protection>

Vinyl protective clothing, lab coat or antistatic protective clothing.

9. Physical and chemical properties

Physical state powder

 Color
 White or off-white

 Odor(threshold)
 Odorless

 pH
 N/A

 Melting Point
 N/A

 Boiling Point
 N/A

 Flash Point
 N/A

LEL/UEL (Upper)N/A (Lower)N/A

Vapor Pressure N/A
Vapor Density N/A

Specific Gravity (relative density) Approx. 1.4-1.7mg/mL Solubility Negligible (<0.1%)

Partition Coefficient octanol/water N/A

Autoignition temperature N/A

Decomposition Temperature N/A

Evaporation Rate N/A

Flammability (Solid, gas) N/A

Viscosity N/A

Other data None

10. Stability and reactivity

Stability Stable at normal handling and storage conditions.

Hazardous polymerization Will not occur to produce hazardous substance at normal handling and storage conditions.

Conditions to Avoid Sunlight, high temperature, humidity, shock, friction.

Incompatibilities None

Hazardous Decomposition Will not occur at normal handling and storage conditions.

Products

11. Toxicological information

Acute Toxicity Data Silica dust ("Registry of toxic effect of chemical substances").

Oral mouse LD_{50} 3000mg/kg

In case of excess inhalation or handling long time may affect lungs due to accumulation. Recommend to wear appropriate dusk

musk while using material.

Irritancy (corrosive) Data Physical stimulation may occur.

Eye effects No information available.

Respiratory/Skin effects No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive Effects No information available.

Single exposure No information available.

Repeated exposure No information available.

12. Ecological information Ecotoxicity No information available. Environmental No information available. Physical No information available. The ecological effects of this product have not been evaluated. Avoid release to the environment. Other information 13. Disposal considerations Dispose in accordance with all applicable regulations. Dispose of its contents and waste via a licensed waste disposal contractor. Waste disposal Contaminated containers Dispose in accordance with all applicable regulations. Dispose after cleaning up the containers and packaging until no residual of and packaging contents can be observed. Use a licensed waste disposal contractor. 14. Transport information International transport <Maritime Transport> regulations IMO: Not Regulated. <Air Transport> ICAO: Not Regulated. IATA: Not Regulated. Special safety practice Load the containers holding the product securely to prevent drop, fall or damage. Transport such containers carefully to prevent significant wear or agitation. See Section 7. Handling and storage for reference when loading/unloading and transporting the product. 15. Regulatory information U.S. TSCA / Silicon dioxide listed. R&D Exemption: For laboratory use only. SARA Codes / None. ΕU None. 16. Other information NFPA Ratings Health: 1 Flammability: 0 Reactivity: 0 Notice to reader Disclaimer The information above is believed to be accurate and represents the best information currently available to us. It is provided in good faith without warranty to assist in the proper handling and storage of this product. YMC CO., LTD. makes no representations as to the accuracy or completeness of the information contained herein. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will YMC CO., LTD. be responsible for damages of any nature whatever resulting from the use of or reliance upon the information contained herein. N/E=Not established. Not included in classification or can not designate due to no data. N/A=Not applicable. Reference OSHA (1994) ACGIH (1999) SDS Revision Summary: SDS Creation Date: June 28, 2016

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