

# **Safety Data Sheet**

Section 1: Identification

**Product identifier** 

Product Name: MARK Substrate

Product Code: RP20244

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

Recommended use: Hazard Communication & Compliance

Details of the supplier of the safety data sheet

Manufacturer: GenScript

860 Centennial Ave.

Piscataway, NJ 08854 United States

www.genscript.com

product@genscript.com

**Telephone (General):** 1-732-885-9188

**Emergency telephone number** 

**Manufacturer:** 1-877-436-7274

#### **Section 2: Hazards identification**

## According to OSHA 29 CFR 1910.1200 HCS

**Emergency Overview**: Lyophilized solid. Toxicological properties of components have not been fully investigated.

Health Effects: Not classified

Inhalation: Not known to present an inhalation hazard under normal use.

Skin: May cause skin irritation

**Eyes**: May cause serious eye irritation **Ingestion**: May be harmful if swallowed.

Chronic Effects/Target Organ Effects: None known.

Medical Conditions Aggravated By Exposure: None known.

Environmental Effects: None known.

#### Section 3 - Composition/Information on Ingredients

Chemical characterization: Substances Description: Chemical synthesized peptide



#### **Section 4: First-Aid Measures**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate

medical advice.

Immediately wash with plenty of water and soap and rinse thoroughly. Seek immediate medical

Skin advice.

Inhalation

Rinse opened eye for several minutes under running water. Remove contact lenses, if present and

**Eye** easy to do. Continue rinsing. Then consult a doctor.

**Swallowing** Seek immediate medical treatment.

## **Section 5: Fire-Fighting Measures**

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### Special protective equipment for firefighters

Standard procedure for chemical fires.

#### Section 6 - Accidental Release Measures

Always wear recommended Personal Protective Equipment. Use personal

protection equipment. Keep unprotected persons away. Ensure adequate

ventilation.

**Methods for cleaning up**Soak up with inert absorbent material.

governmental permit.

Methods and material for

**Personal Precautions** 

containment and cleaning up

Pick up mechanically.

**Prevention of secondary hazards** No special measures required.

#### **Section 7 - Handling and Storage**



**Handling:** Always wear recommended Personal Protective Equipment. No special handling advices are necessary. Keep container tightly sealed.

Storage: Store in freezer(-20°C). Store away from oxidizing agents. Protect from heat. Keep container tightly sealed.

**Specific end use(s):** For R&D/experimental use only

#### Section 8 - Exposure Controls/Personal Protection

**Additional information about design of technical systems:** Properly operating chemical fume food designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### **Exposure Controls**

#### Personal protective equipment

**General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain and ergonomically appropriated working environment.

**Breathing equipment:** Use suitable respirator when high concentrations are present.

**Protection of hands:** Impervious gloves. Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Penetration time of glove material (in minutes): Not determined.

**Eye Protection:** Chemical goggles or safety glasses.

Body Protection: Protective work clothing.

## **Section 9 - Physical and Chemical Properties**

#### **General information**

Form Lyophilized solid

Appearance White or off-white color

Odor No data available

Odor Threshold No data available

Boiling point / boiling range No data available

Melting point / melting range No data available

Flash point: No data available

Autoignition Temperature No data available



Oxidizing properties No data available

Water solubility No data available

Explosion limit Not determined

**Evaporation rate**No data available

Partition coefficient(n-octanol/water) Not determined

Viscosity dynamic No data available

Viscosity kinematic No data available

#### **Section 10: Stability and Reactivity**

Reactivity No additional information available

Chemical stability Stable under recommended storage conditions

**Possibility of hazardous reactions**Not dangerous reactions known.

Conditions to avoid No data available

Incompatible materials No data available

Hazardous decomposition products No data available

#### **Section 11 - Toxicological Information**

#### Information on toxicological effects

**Acute Toxicity:** The Registry of Toxic Effects of Chemical Substance (RTECS) contains acute toxicity data for components in this product.

LD/LC50 values that are relevant for classification: No data

#### **Principle Routes of Exposure Potential Health Effects**

**Eyes** May cause eye irritation with susceptible persons.

**Skin** May cause skin irritation in susceptible persons.

**Inhalation** May be harmful by inhalation.

**Ingestion** May be harmful if swallowed.



Carcinogenic effects

No classification data on carcinogenic properties of this

material is available from the EPA, IARC, NTP, OSHA, or

ACGIH.

Mutagenic effects No effects known.

Reproductive toxicity No effects known.

**Sensitization** No sensitizing effects known.

Additional toxicological information To the best of our knowledge the acute and chronic toxicity

of this substance is not fully known.

## **Section 12 - Ecological Information**

Aquatic toxicity No further relevant information available.

Mobility in soil No further relevant information available.

**Bioaccumulative potential**No further relevant information available.

Persistence and degradability No further relevant information available.

Do not allow material to be released to the environment without

proper governmental permits.

General notes Do not allow undiluted product or large quantities to reach

ground water, water course or sewage system.

Avoid transfer into the environment.

Results of PBT and vPvB assessment Not applicable

## **Section 13 - Disposal Considerations**

Waste treatment methods

Recommendation: Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packaging** 

**Recommendation:** Disposal must be made according to official regulations.

### **Section 14 - Transport Information**

UN-Number / DOT, ADN, IMDG, IATA

Not applicable

UN proper shipping name / DOT, ADN, IMDG, IATA

Not applicable



Transport hazard class(es) / DOT, ADR, AND, IMDG, IATA Class Not applicable

Packing group / DOT, IMDG, IATA

Not applicable

Environmental hazards: Not applicable

Special precautions for user Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

Transport/Additional information:

DOT Not applicable

Marine Pollutant (DOT):

UN "Model Regulation"

Not applicable

### Section 15 - Regulatory Information

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

GHS label element: Not applicable

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

**National regulations:** This product is not listed in the US. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

SARA Section 313 (specific toxic chemical listings): Substance is not listed.

**California Proposition 65** 

Prop 65 - Chemical known to cause cancer: Substance is not listed.

Prop 65 - Developmental toxicity: Substance is not listed.

Prop 65 - Developmental toxicity, female: Substance is not listed.

Prop 65 - Developmental toxicity, male: Substance is not listed.

Information about limitation of use: For use only by technically qualified individuals

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the marker and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use): Substance is not listed.



Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **Section 16 - Other Information**

 Date Created
 05/20/2016

 Date Updated
 03/20/2018

Version 1.2

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