

SAFETY DATA SHEET

NAME: Recombinant Human Beta Defensin 2

MSDS DATE: 03/17/20

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Recombinant Human/Beta Defensin 2 expressed in *E. coli*
SYNONYMS: Beta-defensin 4A; Skin-antimicrobial peptide 1 SAP1; Defensin, beta 2

CATALOG #: PFP-066

MANUFACTURER/SUPPLIER:

Protein Foundry, LLC
P.O. Box 26231
Milwaukee, WI 53226
(414)-301-2601
United States of America

EMERGENCY PHONE: 1 (800) 424-8802 NATIONAL RESPONSE CENTER

OTHER PRODUCT SAFETY INFORMATION

This product has not been registered with CHEMTREC (USA)

SECTION 2: HAZARDS IDENTIFICATION

Classification of substance or mixture: Not a hazardous substance or mixture.

GHS classification: Does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008

GHS labeling: Does not need to be labeled in accordance with EC directives or respective national laws.

Special hazards: None

POTENTIAL HEALTH EFFECTS

EYES CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation.

INGESTION: No recognized ingestion hazard.

INHALATION: No recognized inhalation hazard.

HMIS CODE (Health:0) (Flammability:0) (Reactivity: 0)

NFPA CODE (Health:0) (Flammability:0) (Reactivity: 0)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance/Product Name</u>	<u>CAS</u>	<u>SARA 313</u>
Recombinant Human Beta Defensin 2	None	No

Substances: This product does not contain hazardous chemicals at concentrations of 1% or greater. Additionally, this product is not known to contain carcinogens at concentrations of 0.1% or greater. As a result, a Material Safety Data Sheet is not required for this product.

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

SKIN: Immediately flush with plenty of water.

INGESTION: If swallowed, drink plenty of water. Get immediate medical attention.

INHALATION: If inhaled remove to fresh air. If breathing becomes difficult call a physician.

SECTION 5: FIRE-FIGHTING MEASURES

FLASHPOINT:

UEL: None established.

LEL: None established.

AUTOIGNITION TEMPERATURE: None established.

FLAMMABILITY CLASSIFICATION: Nonflammable material.

EXTINGUISHING MEDIA: Not applicable - nonflammable material.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

FIRE-FIGHTING EQUIPMENT: Not applicable - nonflammable material.

PRECAUTIONS: Not applicable - nonflammable material.

HAZARDOUS COMBUSTION PRODUCTS: Non-determined.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SAFETY DATA SHEET

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MSDS DATE: 03/17/20

Use eye protection, gloves, and apron. Implement appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Clean up: Sweep up, place in bag and hold for disposal. Ventilate area and wash site after material is picked up.

SECTION 7: HANDLING AND STORAGE

HANDLING: User Exposure: avoid inhalation. Avoid contact with eyes, skin, and clothing.

STORAGE: Suitable: keep tightly closed. Store at -20°C.

See product data sheet for more information on handling and storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

EYE: Do not get in eyes.

SKIN: Wear clothing and gloves that cannot be penetrated by chemicals or oil.

INHALATION: Not applicable - not an inhalation hazard.

ENGINEERING CONTROLS: Safety shower and eye bath. Mechanical exhaust required.

EXPOSURE GUIDELINES: Wash thoroughly after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE lyophilized white powder

ODOR: Little to none.

pH: N/A

VAPOR PRESSURE: N/A.

VAPOR DENSITY: N/A.

BOILING POINT: N/A.

MELTING POINT: N/A

SOLUBILITY: N/A.

SPECIFIC GRAVITY (WATER=1): N/A

Volatile%: N/A

Water content: N/A

Decomposition Temp.: N/A

VOC content: N/A

Viscosity: N/A

See product data sheet for more information on physical and chemical properties.

N/A = not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Non-flammable. Non-explosive.

REACTIVITY: Stable under recommended transport and storage conditions.

STABILITY: Non-flammable. Non-explosive.

CONDITIONS TO AVOID: Strong oxidizing and reducing agents.

MATERIALS TO AVOID: Strong oxidizing and reducing agents

HAZARDOUS DECOMPOSITION: None determined.

HAZARDOUS POLYMERIZATION: Does not spontaneously polymerize.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Classification criteria are not met based on available data.

SKIN IRRITANT EFFECT: Classification criteria are not met based on available data.

EYE IRRITANT EFFECT: Classification criteria are not met based on available data.

SENSITIZATION: Classification criteria are not met based on available data.

MUTAGENICITY: Classification criteria are not met based on available data.

CARCINOGENICITY: Classification criteria are not met based on available data.

REPRODUCTIVE TOXICITY: Classification criteria are not met based on available data.

ADDITIONAL TOXICOLOGICAL INFORMATION: When used and handled according to specifications, the product does not have any harmful effects according to available information.

SECTION 12: ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

SAFETY DATA SHEET

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SECTION 13: DISPOSAL CONSIDERATIONS

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DISPOSAL METHODS: Dispose of waste in accordance to applicable national, regional, or local regulations.

CONTAMINATED PACKAGING: Dispose in the same manner as unused product.

SPECIAL PRECAUTIONS: Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spill material to soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

DOT

Proper shipping Name: none

Non-hazardous for Transport: this substance is considered to be non-hazardous for transport.

IATA

Non-hazardous for Air Transports: non-hazardous for air transport.

SECTION 15: REGULATORY INFORMATION

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR Part 302.4): This product is not reportable under 40 CFR Part 302.4.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355): This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370): This product is not defined as hazardous by OSHA under 29 CFR Part 1910.1200(d).

SARA TITLE III SECTION 313 (40 CFR Part 372): This product does not contain any of the substances on the Toxic Chemicals List in 40 CFR Part 372.

U.S. INVENTORY (TSCA): Not listed on inventory.

OSHA HAZARD COMMUNICATION STANDARD: non-hazardous

EC INVENTORY (EINECS/ELINCS): Not determined.

JAPAN INVENTORY (MITI): Not determined.

AUSTRALIA INVENTORY (AICS): Not determined.

KOREA INVENTORY (ECL): Not determined.

CANADA INVENTORY (DSL): Not determined.

PHILIPPINE INVENTORY (PICCS): Not determined.

SECTION 16: OTHER INFORMATION

Disclaimer: For R&D use only.

Version: 1.1

Issued: March 2020

Supersedes: 1.0

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.