

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name:	Mismatch Repair Protein 2-MSH2 (DBM15.82)
Cat ##	MM149-10
Components	Tween-20, Sodium Azide, Proclin 300™
EC	500-018-3, 247-852-1, 613-167-00-5
CAS	9005-64-5, 26628-22-8, 55965-84-9

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

Green liquid reagent

1.3 Manufactured For:

StatLab Medical Products 2090 Commerce Drive McKinney, TX 75069 (800)-442-3573 statlab.com
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1.4 Emergency telephone number

Chemtrec: 800-424-9300 (USA & Canada) Chemtrec: 703-527-3987 (International)
Non-transport: 972-436-1010 (USA)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Hazard Class	Category	Category	Hazard Statements (H-Statements)
N/A	N/A	N/A	This product has been classified as non-hazardous based on the physical and/or chemical nature and/or concentration of ingredients.

2.2 Label elements

Signal Word	Warning
Pictogram	
H-Statements	N/A

P-Statements	N/A
EUH-Statements	N/A

2.3 Other hazards

N/A

SECTION 3: Composition/information on ingredients

Name	Identifiers	Classification according to CLP	Classification (for pure substances)
Tween-20	EC: 500-018-3 CAS: 9005-64-5	Concentration: <0.15 %	R236, R38
Sodium Azide	EC: 247-852-1 CAS: 26628-22-8	Concentration: <0.1%	R28, R38, R50/53
Proclin 300™	EC: 613-167-00-5 CAS: 55965-84-9	Concentration: <0.1%	R43

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	Move to well-ventilated area. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
If on skin	Immediately flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occurs, obtain medical attention.
If in eyes	Immediately wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.
If swallowed	Rinse mouth with water. Immediately seek medical attention and call poison control center.
Self-protection of the first aider	N/A

4.2 Most important symptoms and effects, both acute and delayed

N/A

4.3 Indication of any immediate medical attention and special treatment needed

N/A

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Extinguish using suitable agents
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Unsuitable extinguishing media	N/A
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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).
Other information	N/A

5.3 Advice for firefighters

Wear protective clothing containing self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment	Ensure adequate ventilation Eye Protection: Wear goggles or safety glasses Hand protection: Wear latex or vinyl gloves Other protective equipment: Use lab coat or apron to prevent contact with eyes, skin and clothing
Emergency procedures	N/A
For emergency responders	N/A

6.2 Environmental precautions

Do not allow to enter sewage system

6.3 Methods and material for containment and cleaning up

For containment	N/A
For cleaning up	Use universal precautions during clean up procedures. As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Use liquid absorbent material to absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.
Other information	N/A

6.4 Reference to other sections

N/A

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire	N/A
Measures to prevent aerosol and dust generation	N/A

Measures to protect the environment	N/A
Advice on general occupational hygiene	Universal precautions should be followed when using this product. Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with skin and eyes. Do not ingest. Do not eat, drink when handling this product, and wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Store at 2°C to 8°C
Packaging materials	N/A
Requirements for storage rooms and vessels	N/A
Storage class	N/A
Other information	N/A

7.3 Specific end use(s)

Recommendations	N/A
Industrial sector specific solutions	N/A

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

8.2 Exposure controls

Respiratory Protection	Use in well-ventilated laboratory
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear, Green, Liquid
Odor	Odorless
Order Threshold	N/A

Safety Data Sheet

Effective Date: April 14, 2020

Version: 1.0

Product Name: Mismatch Repair Protein 2-MSH2 (DBM15.82)

pH	7.5
Melting Point/ Freezing Point	N/A
Initial Boiling Point/ Freezing Point	N/A
Flash Point	N/A
Evaporation Rate	N/A
Flammability	N/A

Upper/Lower Flammability or Explosive Limits	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Relative Density	~1g/mL
Solubility	N/A
Partition Coefficient: n-octanol/water	N/A
Auto-Ignition Temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A
Explosive Properties	N/A
Oxidizing Properties	N/A

9.2 Other Information

N/A

Section 10: Stability and Reactivity

10.1 Reactivity

N/A

10.2 Chemical Stability

Stable under recommended storage conditions

10.3 Possibility of Hazardous Reactions

N/A

10.4 Conditions to Avoid

Strong prolonged heat and contact with incompatible materials

10.5 Incompatible Materials

Strong Acids
Strong Bases
Strong Oxidizers
Metals and Metallic compounds
Sodium Azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains result in the buildup of shock sensitive compounds.

10.6 Hazardous Decomposition Products

N/A

SECTION 11: Toxicological Information

Tween-20 (in pure form): mouse LD50 oral > 33gm/kg (33000mg/kg)
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Common route of entry	Ingestion
Potential Effects of Acute Exposure	Mild skin irritation
Potential Effects of Chronic Exposure	N/A
Symptoms of Overexposure	N/A
Sodium Azide (in pure form): mouse LD50 oral 27mg/kg (27mg/kg)	
Common route of entry	Ingestion
Potential Effects of Acute Exposure	Its concentration is low (<0.1%) in this product, but it is highly toxic when ingested in pure form. Overexposure may cause irritation of skin, eyes and mucous membranes, lowered blood pressure and irregular heartbeat. Sodium azide is a chemical asphyxiant and may affect the cardiovascular, respiratory and central nervous systems. Symptoms may include irritation, severe, pounding headaches, dizziness, weakness, nausea, vomiting, low blood pressure, rapid heartbeat, convulsions, collapse and death.
Potential Effects of Chronic Exposure	Prolonged or repeated exposure may result in pounding headaches, eye and nose irritation, low blood pressure, fatigue and dizziness.
Symptoms of Overexposure	Eye, skin, nose and throat irritation; headache, weakness, dizziness, confusion, nausea and vomiting. This may also lead to difficulty in breathing, irregular heartbeat, reddish colored skin, unconsciousness, convulsions, coma and death. Symptoms may be delayed for several hours after exposure.
Proclin 300™ (in pure form): LD50 (oral-rat): 3600 mg/kg (100%)	
Common route of entry	Ingestion

Potential Effects of Acute Exposure	The product contains <0.1% of Proclin 300™ which corresponds to <0.0015% of its active ingredients. At this low final concentration, this biocidal preservative is irritating to eyes and skin and may be detrimental if enough is ingested (quantities above those found in the kit).
Potential Effects of Chronic Exposure	It is a skin sensitizer; prolonged or repeated exposure may cause allergic reaction in certain sensitive individuals.
Symptoms of Overexposure	Allergic skin reaction

SECTION 12: Ecological Information

12.1 Toxicity

Preservatives normally are toxic for aquatic organisms when using pure substances. No ecological problems are to be expected when this product is handled and used with care and attention.

12.2 Persistence and Degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in Soil

N/A

12.5 Results of PBT and vPvB Assessment

N/A

12.6 Other Adverse Effects

N/A

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

SECTION 14: Transport Information

14.1 Un Number

N/A

14.2 Un Proper Shipping Name

N/A

14.3 Transport Hazard Class (es)

N/A

14.4 Packing Group

N/A

14.5 Environmental Hazards

N/A

14.6 Special Precautions for User

N/A

14.7 Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

SECTION 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The product does not contain a hazardous ingredient in an amount that requires identification and labeling according to EC directives.

15.2 Chemical Safety Assessment

N/A

SECTION 16: Other Information

This information is believed to be accurate and represents the best information currently available to StatLab Medical Products. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.

Users should make their own investigations to determine the suitability of the information of their particular purposes.