

MATERIAL SAFETY DATA SHEET

Date updated: 01/01/2021

< 1 > PRODUCT AND COMPANY INFORMATION

Product name : DynaMarker® Prestain Marker for RNA High
Product Number : DM260
Brand : DynaMarker

Supplier company : BioDynamics Laboratory Inc.
9-7 Hongo 2-Chome, Bunkyo-gu, Tokyo 113-0033 Japan
Business Telephone: 03-5684-6296
Emergency Telephone: 03-5684-6270

< 2 > COMPOSITION/INFORMATION ON INGREDIENTS:

Substance Name	CAS#		SARA 313
DynaMarker® Prestain Marker for RNA High	None		No
Ingredient Name			
	CAS#	Percent	SARA 313
Glycerol	56-81	10	No
3-Morpholinopropanesulfonic acid (MOPS)	1132-62-2	< 1.0	No
Disodium Dihydrogen Ethylenediaminetetraacetate Dihydrate	6381-92-6	<0.1	No
Sodium Acetate	127-09-3	<0.1	No
Nucleic Acid Chain – Blue Dye Conjugate	None	<0.1	No
Nucleic Acid Chain – Purple Dye Conjugate	None	<0.1	No

< 3 > HAZARDS IDENTIFICATION

Emergency Overview

Caution: Avoid contact and inhalation
Target Organ(s): Kidneys and Skin.

HMIS RATING

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0

< 4 > FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

< 5 > FIREFIGHTING MEASURES

Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

Further information

Use water spray to cool unopened containers.

Flash Point : N/A

< 6 > ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

< 7 > HANDLING AND STORAGE:

Personal Protective Equipment:

Respiratory: Handling: Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N1—(US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Storage: Store at **-80 C**. Keep container tightly closed when not in use.

Specific Uses: For R&D/experimental use only

< 8 > EXPOSURE CONTROLS / PPE

Engineering Controls: Use only in a chemical fume hood, Safety shower and eye bath.

Personal Protective Equipment

Respiratory Protection : Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N1—(US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

< 9 > PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Physical Status: Liquid	
Property	Value	At Temperature or Pressure
pH	Not available	
BP/Boiling Point Range	Not available	
MP/Melting Point Range	Not available	
Freezing Point	Not available	
Vapor Pressure	Not available	
Vapor Density	Not available	
Saturated Vapor Cone.	Not available	
Bulk Density	Not available	
Odor Threshold	Not available	
Volatile%	Not available	
VOC Content	Not available	
Water Content	Not available	
Solvent Content	Not available	
Evaporation Rate	Not available	
Viscosity	Not available	
Surface Tension	Not available	
Partition Coefficient	Not available	
Decomposition Temp.	Not available	
Flash Point	Not available	
Explosion Limits	Not available	
Flammability	Not available	
Autoignition Temp	Not available	
Refractive Index	Not available	
Optical Rotation	Not available	
Miscellaneous Data	Not available	
Solubility	Not available	

< 10 > STABILITY AND REACTIVITY:

STABILITY

Stable: Stable.

Materials To Avoid: Strong oxidizers, Oxidizing agents, Acids, Bases.

Hazardous Decomposition Products

Hazardous Decomposition Products: Nature of decomposition products not Known.

Hazardous Polymerization

Hazardous Polymerization: Will not occur.

< 11 > TOXICOLOGICAL INFORMATION:

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SENSITIZATION

Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

TARGET ORGAN(S) OR SYSTEM(S)

Kidneys and skin.

SIGN AND SYMPTOMS OF EXPOSURE

Gastrointestinal disturbance, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

< 12 > Ecological Information

No data available.

< 13 > DISPOSAL CONSIDERATIONS

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, states, and local environmental regulation.

< 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 Transport: Non-Hazardous for Air Transport

< 15 > REGULATORY INFORMATION

US Regulations

This product meets the following SARA 311/312 hazard categories: None.

This product contains the following SARA 302 Extremely Hazardous Substances: None.

This product contains the following SARA 313 Toxic Chemicals: None.

This product contains the following CERCLA Hazardous Substances: None.

Not all components of this product are listed on the TSCA inventory.

This product is for R&D and experimental uses only and must be used under the supervision of a technically qualified individual. Other uses are not authorized.

EU Regulations:

This preparation does not meet the dangerous preparations classification criteria under 1999/45/EC. Not all components of this product are listed on EINECS.

Canadian Regulations:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and it contains the information required by the CPR.

This product does not meet WHMIS classification criteria as a hazardous material.

Not all components of this product are listed on the DSL.

< 16 > REFERENCES

- 1) MSDS - SIGMA ALDRICH (cat# G7793)
- 2) MSDS - Japan Advanced Information Center of Safety and Health
- 3) HMIS Ratings Instruction Guide
- 4) THE MERCK INDEX 13th EDITION

< 17 > OTHER INFORMATION:

DISCLAIMER: For R&D use only. Not for drug, household, or other uses.

WARRANTY

The above information is believed to be correct but does not purpose to be all inclusive and shall be used only a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biodynamics Laboratory Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

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