

MATERIAL SAFETY DATA SHEET



SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product name: Natural microRNA Precursor™ miR-302bcad/367 Purified

Catalogue number: M-410-367-PF

Company: Mello Biotechnology, Inc.

Address: 12145 Mora Dr., #6, Santa Fe Springs, CA 90670, USA

Phone: (562) 946-0131

Email: support@mellobiotech.com

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS# | Chemical Name | % | EINECS# |
| 9008-72-4 | Nucleic Acid (Pract), (UV-VIS) | 90% | unlisted |

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

The toxicological properties of this material have not been fully investigated.

Potential Health Effects

*Eye: may cause eye irritation.

*Skin: may cause skin irritation.

*Ingestion: may cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

*Inhalation: may cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

*Chronic: no information found.

SECTION 4 - FIRST AID MEASURES

*Eyes: flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

*Skin: get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Wash clothing before reuse.

*Ingestion: never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

*Inhalation: remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL INFORMATION: as in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

EXTINGUISHING MEDIA: use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION: use proper personal protective equipment as indicated in Section 8.

SPILLS/LEAKS: vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

SECTION 7 - HANDLING AND STORAGE

HANDLING: wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

STORAGE: keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low

PERSONAL PROTECTIVE EQUIPMENT:

*Eyes: wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

*Skin: wear appropriate protective gloves to prevent skin exposure.

*Clothing: wear appropriate protective clothing to minimize contact with skin.

*Respirators: follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Color: clear

Odor: N/A

pH: N/A

Vapor Pressure: N/A

Viscosity: N/A

Boiling Point: N/A
Freezing/Melting Point: N/A
Autoignition Temperature: N/A
Flash Point: N/A
Explosion Limits, lower: N/A
Explosion Limits, upper: N/A
Molecular Weight: N/A

SECTION 10 - STABILITY AND REACTIVITY

*Chemical Stability: stable under normal temperatures and pressures.
*Conditions to Avoid: incompatible materials, dust generation, excess heat, strong oxidants.
Incompatibilities with Other Materials: Oxidizing agents.
Hazardous Decomposition Products: Not known.
Hazardous Polymerization: Has not been reported

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 9008-72-4 unlisted.
LD50/LC50: Not available.
Carcinogenicity: Nucleic Acid (Pract), (UV-VIS) - Not listed by ACGIH, IARC, or NTP.

SECTION 12 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 13 - TRANSPORT INFORMATION

IATA: Not regulated as a hazardous material.
IMO: Not regulated as a hazardous material.
RID/ADR: Not regulated as a hazardous material.

SECTION 14 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phrases:
Safety Phrases: S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
CAS# 9008-72-4: No information available.
Canada
None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 9008-72-4 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 9008-72-4 is not listed on the TSCA inventory.

It is for research and development use only.

SECTION 15 - ADDITIONAL INFORMATION

MSDS Creation Date: 5/1/2012

*The information above is believed to be accurate and represents the best information currently available to us. 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 for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.