

MATERIAL SAFETY DATA SHEET

MSDS Revision Date
05/2012

Reagents
AD1011, AD1012

- **SECTION 1–CHEMICAL INFORMATION:**

AdenoRetriever Solution (AD1011)
AdenoBooster Solution (AD1012)

- **SECTION 2–COMPOSITION/INFORMATION ON INGREDIENT:**

Cas No.: None SARA 313: N0

- **SECTION 3–HAZARDOUS IDENTIFICATION:**

HMS Rating	NFPA Rating
Health: 2	Health: 2
Flammability: 0	Flammability: 0
Reactivity: 0	Reactivity: 0

* For additional information on toxicity, please refer to Section 11.

- **SECTION 4–FIRST AID MEASURES**

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing is difficult, call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Assure adequate flushing by separating the eyelids with fingers. Call a physician.

- **SECTION 5–FIRE FIGHTING MEASURES**

Extinguishing Media: Suitable: Water spray. Carbon Dioxide, dry chemical powder or appropriate foam.

Special Firefighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

Flash point: N/A

Flammability: N/A

Autoignition Temp: N/A

- **SECTION 6–ACCIDENTAL RELEASE MEASURES**

Methods For Cleaning Up: Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

- **SECTION 7–HANDLING AND STORAGE**

HANDLING: User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE: Suitable: Keep tightly closed. Store at 2-8°C.

- **SECTION 8–EXPOSURE CONTROLS/PPE**

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.

Hand: Protective gloves.

Eye: Chemical safety goggles.

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

- **SECTION 9–PHYSICAL AND CHEMICAL PROPERTIES**

HANDLING: User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE: Suitable: Keep tightly closed. Store at 2-8°C.

Appearance: Physical State: Clear Liquid

Property Value At temperature or Pressure

Molecular Weight	N/A	pH	N/A
BP/BP Range	N/A	MP/MP Range	N/A
Freezing Point	N/A	Vapor Pressure	N/A
Vapor Density	N/A	Saturated Vapor Conc.	N/A
SG/Density	N/A	Bulk Density	N/A
Odor Threshold	N/A	Volatile%	N/A
VOC Content	N/A	Water Content	N/A
Solvent Content	N/A	Evaporation Rate	N/A
Viscosity	N/A	Surface Tension	N/A
Partition Coefficient	N/A	Decomposition Temp.	N/A
Flash Point	N/A	Explosion Limits	N/A
Flammability	N/A	Autoignition Temp	N/A
Refractive Index	N/A	Optical Rotation	N/A
Miscellaneous Data	N/A	Solubility	N/A

N/A = not available

- **SECTION 10–STABILITY AND REACTIVITY**

Stability: Stable Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

- **SECTION 11-TOXICOLOGICAL INFORMATION**

Route of Exposure:

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

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.

Conditions Aggravated By Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

- **SECTION 12-ECOLOGICAL INFORMATION**

NO DATA AVAILABLE

- **SECTION 13-DISPOSAL CONSIDERATIONS**

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

- **SECTION 14-TRANSPORT INFORMATION**

DOT

Non-Hazardous for Air Transport: non-hazardous for air transport.

IATA

Non-Hazardous for Air Transport: non-hazardous for air transport.

- **SECTION 15-REGULATORY INFORMATION**

United States Regulatory Information:

Sara Listed: No

Canada Regulatory Information WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: NO

NDSL: No

- **SECTION 16-OTHER INFORMATION**

DISCLAIMER

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

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ATCGbio Life Technology Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.