



Material Safety Data Sheet

MYbaits kit, Box #2, 48 reactions

1. Product and company identification

Product name : MYbaits kit, Box #2, 48 reactions
 MYbaits Hyb #3 0.700 ml
 MYbaits Block #1 0.125 ml
 MYbaits Block #2 0.125 ml
 MYbaits Block #3 0.030 ml
 RNase Block 0.070 ml

Material uses : Analytical reagent

Supplier : Biodiscovery, LLC dba MYcroarray
 5692 Plymouth Rd
 Ann Arbor, MI 48105, USA
 1-734-998-0751

Date of revision : February 1, 2017

In case of emergency : 1-734-998-0751

2. Composition/Information on ingredients

Composition : MYbaits Hyb #3 50X Denhart's solution
 MYbaits Block #1 1 ug/ul Cot 1 DNA (various organism)
 MYbaits Block #2 1 ug/ul Salmon sperm DNA
 MYbaits Block #3 DNA oligonucleotides
 RNase Block Superase-in RNase inhibitor

| Name | CAS number | % |
|--------------------------------|------------|---------|
| RNase Block Glycerol | 56-81-5 | 10 – 30 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

3. Hazards identification

OSHA/HCS status : MYbaits Hyb #3
 While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product.

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| | MYbaits Block #1 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. |
| | MYbaits Block #2 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. |
| | MYbaits Block #3 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. |
| | RNase Block | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Hazard statements | : MYbaits Hyb #3 | NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. |
| | MYbaits Block #1 | NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. |
| | MYbaits Block #2 | NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.SWALLOWED. |
| | MYbaits Block #3 | NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. |
| | RNase Block | MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. |
| Precautions | : MYbaits Hyb #3 | No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. |
| | MYbaits Block #1 | No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. |
| | MYbaits Block #2 | No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. |
| | MYbaits Block #3 | No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. |

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RNase Block Do not breathe vapor or mist. Do not ingest. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry : MYbaits Hyb #3 Not available
MYbaits Block #1 Not available
MYbaits Block #2 Not available
MYbaits Block #3 Not available
RNase Block Not available

4. First aid measures

Eye contact : MYbaits Hyb #3 Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
MYbaits Block #1 Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
MYbaits Block #2 Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
MYbaits Block #3 Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
RNase Block Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : MYbaits Hyb #3 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
MYbaits Block #1 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
MYbaits Block #2 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while

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| | | removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. |
| | MYbaits Block #3 | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. |
| | RNase Block | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. |
| Inhalation | : MYbaits Hyb #3 | Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur. |
| | MYbaits Block #1 | Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention symptoms occur. |
| | MYbaits Block #2 | Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention symptoms occur. |
| | MYbaits Block #3 | Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention symptoms occur. |
| | RNase Block | Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. |
| Ingestion | : MYbaits Hyb #3 | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention symptoms occur. |

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| MYbaits Block #1 | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention symptoms occur. |
| MYbaits Block #2 | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention symptoms occur. |
| MYbaits Block #3 | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention symptoms occur. |
| RNase Block | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. |

5. Fire-fighting measures

- Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

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Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage : Store in accordance with local regulations. Store in original container in a freezer at -15°C to -25°C, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Methods for cleaning up : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

8. Exposure controls/personal protection

Ingredient

RNase Block

Glycerol

Exposure limits

ACGIH TLV (United States, 1/2009).

TWA: 10 mg/m³ 8 hour(s). Form: Mist

OSHA PEL (United States, 11/2006).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m³ 8 hour(s). Form: Total dust

OSHA PEL 1989 (United States, 3/1989).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes

: Safety eyewear complying with an approved standard should be used when a risk

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assessment indicates this is necessary to avoid exposure to liquid splashes or mists

- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

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| Physical state | : MYbaits Hyb #3 | Liquid |
| | MYbaits Block #1 | Liquid |
| | MYbaits Block #2 | Liquid |
| | MYbaits Block #3 | Liquid |
| | RNase Block | Liquid |
| Flash point | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Auto-ignition temperature | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Flammable limits | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Color | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Odor | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |

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| pH | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Boiling point | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Melting point | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Volatility | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Viscosity | : MYbaits Hyb #3 | Not available |
| | MYbaits Block #1 | Not available |
| | MYbaits Block #2 | Not available |
| | MYbaits Block #3 | Not available |
| | RNase Block | Not available |
| Solubility | : MYbaits Hyb #3 | Easily soluble in the following materials: cold water and hot water. |
| | MYbaits Block #1 | Easily soluble in the following materials: cold water and hot water. |
| | MYbaits Block #2 | Easily soluble in the following materials: cold water and hot water. |
| | MYbaits Block #3 | Easily soluble in the following materials: cold water and hot water. |
| | RNase Block | Soluble in the following materials: cold water and hot water. |
| 10. Stability and reactivity | | |
| Chemical stability | : MYbaits Hyb #3 | The product is stable |
| | MYbaits Block #1 | The product is stable |
| | MYbaits Block #2 | The product is stable |
| | MYbaits Block #3 | The product is stable |
| | RNase Block | The product is stable |

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| Conditions to avoid | : MYbaits Hyb #3 MYbaits Block #1 MYbaits Block #2 MYbaits Block #3 RNase Block | No specific data No specific data No specific data No specific data Keep away from open flames, hot surfaces and sources of ignition. |
| Materials to avoid | : MYbaits Hyb #3 MYbaits Block #1 MYbaits Block #2 MYbaits Block #3 RNase Block | No specific data No specific data No specific data No specific data Strong acids and oxidizing agents, acetic anhydride, isocyanates, ammonia, bases. |
| Hazardous decomposition products | : MYbaits Hyb #3 MYbaits Block #1 MYbaits Block #2 MYbaits Block #3 RNase Block | Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides |
| Possibility of hazardous reactions | : MYbaits Hyb #3 MYbaits Block #1 MYbaits Block #2 MYbaits Block #3 RNase Block | Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. |

11. Toxicological information

Accute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------------|---------------|----------------|-------------|-----------------|
| RNase Block Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |

Irritation/corrosion

Not available

Sensitizer

Conclusion/Summary: Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Other adverse symptoms : MYbaits Hyb #3 Not available
 MYbaits Block #1 Not available
 MYbaits Block #2 Not available
 MYbaits Block #3 Not available
 RNase Block Not available

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|--------------------------------|--|--|----------------------|
| RNase Block Glycerol | Acute LC50 51 to 57 g/L Fresh water EC50 >500mg/l | Fish - Oncorhynchus mykiss - 0.9g Daphnia magna | 96 hours 24 hours |

Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways and drains

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

DOT

Proper shipping name: none
Non-hazardous for transport: This kit is considered to be non-hazardous for transport.

IATA

Non-hazardous for air transport: This kit is considered to be non-hazardous for transport.

15. Regulatory information

- HCS Classification** : MYbaits Hyb #3 Not regulated.
MYbaits Block #1 Not regulated.
MYbaits Block #2 Not regulated.
MYbaits Block #3 Not regulated.
RNase Block Irritating material. Target organ effects
- U.S. Federal regulations** : **TSCA 8(a) IUR:** Glycerol; Water; Albumins, blood serum; .alpha.-D-Glucopyranoside,.beta.-D-fructofuranosyl, polymer with 2-(chloromethyl)oxirane; 2-Pyrrolidinone, 1-ethenyl-, homopolymer
United States inventory (TSCA 8b): All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Glycerol
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
Glycerol: Immediate (acute) health hazard, Delayed (chronic) health hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: Potassium hydroxide; Edetic acid
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
- Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Not listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed
- State regulations**
- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65** : No products were found

16. Other information

Notice to reader

Disclaimer: The information contained in this document is based on MYcroarray / Biodiscovery, LLC's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

BIODISCOVERY LLC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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FOR RESEARCH USE ONLY. FOR IN VITRO USE ONLY. NOT FOR USE IN HUMAN OR ANIMALS. NOT FOR USE IN DIAGNOSTIC PROCEDURES.