



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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### Product identifier

3M™ Clean-Trace™ Biomass Detection Kit (formerly Biotrace™ Multi-Trace Water Kit)

### ID Number(s):

GH-6205-0015-3, GH-6205-2247-0

### Recommended use

Microbiological testing

### Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Food Safety Department                  |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

### Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

23-0013-5, 22-9762-0, 23-0012-7

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| <b>Issue Date:</b>     | 12/21/15  | <b>Supersedes Date:</b> | 02/16/10 |

### SECTION 1: Identification

#### 1.1. Product identifier

Diluent

#### Product Identification Numbers

GH-6205-0777-8, GH-6205-0778-6, GH-6205-0831-3

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Kit Component, Used to reconstitute freeze dried B reagent in the 3M Biomass Detection Kit.

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M  |
| <b>DIVISION:</b>     | 3M United Kingdom<br>Food Safety Department |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA     |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)             |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable.

#### 2.3. Hazards not otherwise classified

None.

### SECTION 3: Composition/information on ingredients

| Ingredient               | C.A.S. No.    | % by Wt  |
|--------------------------|---------------|----------|
| WATER                    | 7732-18-5     | 80 - 100 |
| ISOPROPYL ALCOHOL        | 67-63-0       | < 1      |
| LECITHIN                 | Trade Secret* | < 1      |
| NON-HAZARDOUS STABILIZER | Trade Secret* | < 1      |
| SODIUM AZIDE             | 26628-22-8    | < 0.1    |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation:**

No need for first aid is anticipated.

**Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**

No need for first aid is anticipated.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Observe precautions from other sections.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

No specific handling precautions are necessary.

**7.2. Conditions for safe storage including any incompatibilities**

Store away from heat.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient        | C.A.S. No. | Agency | Limit type   | Additional Comments            |
|-------------------|------------|--------|--|--------------------------------|
| SODIUM AZIDE      | 26628-22-8 | ACGIH  | CEIL(as hydrazoic acid vapor):0.11 ppm;CEIL(as NaN <sub>3</sub> ):0.29 mg/m <sup>3</sup> | A4: Not class. as human carcin |
| ISOPROPYL ALCOHOL | 67-63-0    | ACGIH  | TWA:200 ppm;STEL:400 ppm   | A4: Not class. as human carcin |
| ISOPROPYL ALCOHOL | 67-63-0    | OSHA   | TWA:980 mg/m <sup>3</sup> (400 ppm)  |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Eye protection not required.

**Skin/hand protection**

No chemical protective gloves are required.

**Respiratory protection**

Respiratory protection is not required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| General Physical Form:                  | Liquid              |
| Odor, Color, Grade:                     | Odorless; Colorless |
| Odor threshold                          | No Data Available   |
| pH                                      | No Data Available   |
| Melting point                           | Not Applicable      |
| Boiling Point                           | No Data Available   |
| Flash Point                             | Not Applicable      |
| Evaporation rate                        | No Data Available   |
| Flammability (solid, gas)               | Not Applicable      |
| Flammable Limits(LEL)                   | Not Applicable      |
| Flammable Limits(UEL)                   | Not Applicable      |
| Vapor Pressure                          | No Data Available   |
| Vapor Density                           | No Data Available   |
| Density                                 | No Data Available   |
| Specific Gravity                        | No Data Available   |
| Solubility in Water                     | Complete            |
| Solubility- non-water                   | No Data Available   |
| Partition coefficient: n-octanol/ water | No Data Available   |
| Autoignition temperature                | No Data Available   |
| Decomposition temperature               | No Data Available   |
| Viscosity                               | No Data Available   |
| Percent volatile                        | No Data Available   |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

Not Specified

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient

classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Inhalation:

No known health effects.

##### Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

##### Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

##### Ingestion:

No known health effects.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| Name                     | Route                      | Species | Value   |
|--------------------------|----------------------------|---------|---|
| Overall product          | Ingestion                  |         | No data available; calculated ATE > 5,000 mg/kg |
| NON-HAZARDOUS STABILIZER | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg              |
| NON-HAZARDOUS STABILIZER | Ingestion                  | Rat     | LD50 > 38,000 mg/kg                             |
| ISOPROPYL ALCOHOL        | Dermal                     | Rabbit  | LD50 12,870 mg/kg                               |
| ISOPROPYL ALCOHOL        | Inhalation-Vapor (4 hours) | Rat     | LC50 72.6 mg/l                                  |
| ISOPROPYL ALCOHOL        | Ingestion                  | Rat     | LD50 4,710 mg/kg                                |
| SODIUM AZIDE             | Dermal                     | Rabbit  | LD50 20 mg/kg                                   |
| SODIUM AZIDE             | Ingestion                  | Rat     | LD50 42 mg/kg                                   |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name              | Species                 | Value                     |
|-------------------|-------------------------|---------------------------|
| ISOPROPYL ALCOHOL | Multiple animal species | No significant irritation |
| SODIUM AZIDE      | Not available           | Mild irritant             |

#### Serious Eye Damage/Irritation

| Name              | Species       | Value             |
|-------------------|---------------|-------------------|
| ISOPROPYL ALCOHOL | Rabbit        | Severe irritant   |
| SODIUM AZIDE      | Not available | Moderate irritant |

#### Skin Sensitization

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

|                |          |
|----------------|----------|
| <b>Diluent</b> | 12/21/15 |
|----------------|----------|

|                   |            |                 |
|-------------------|------------|-----------------|
| ISOPROPYL ALCOHOL | Guinea pig | Not sensitizing |
|-------------------|------------|-----------------|

### Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

| Name              | Route    | Value  |
|-------------------|----------|--|
| ISOPROPYL ALCOHOL | In Vitro | Not mutagenic  |
| ISOPROPYL ALCOHOL | In vivo  | Not mutagenic  |
| SODIUM AZIDE      | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name              | Route      | Species | Value  |
|-------------------|------------|---------|--|
| ISOPROPYL ALCOHOL | Inhalation | Rat     | Some positive data exist, but the data are not sufficient for classification |
| SODIUM AZIDE      | Ingestion  | Rat     | Not carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name              | Route      | Value  | Species | Test Result         | Exposure Duration    |
|-------------------|------------|--|---------|---------------------|----------------------|
| ISOPROPYL ALCOHOL | Ingestion  | Some positive developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 400 mg/kg/day | during organogenesis |
| ISOPROPYL ALCOHOL | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat     | LOAEL 9 mg/l        | during gestation     |
| SODIUM AZIDE      | Ingestion  | Some positive developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 10 mg/kg/day  | during gestation     |

### Lactation

| Name         | Route     | Species | Value                                      |
|--------------|-----------|---------|--|
| SODIUM AZIDE | Ingestion | Rat     | Does not cause effects on or via lactation |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name              | Route      | Target Organ(s)                   | Value  | Species    | Test Result         | Exposure Duration      |
|-------------------|------------|-----------------------------------|--|------------|---------------------|------------------------|
| ISOPROPYL ALCOHOL | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human      | NOAEL Not available |                        |
| ISOPROPYL ALCOHOL | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human      | NOAEL Not available |                        |
| ISOPROPYL ALCOHOL | Inhalation | auditory system                   | Some positive data exist, but the data are not sufficient for classification | Guinea pig | NOAEL 13.4 mg/l     | 24 hours               |
| ISOPROPYL ALCOHOL | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human      | NOAEL Not available | poisoning and/or abuse |
| SODIUM AZIDE      | Inhalation | vascular system                   | Causes damage to organs  | Human      | NOAEL NA            | occupational exposure  |
| SODIUM AZIDE      | Ingestion  | vascular system                   | Causes damage to organs  | Human      | NOAEL NA            | poisoning and/or abuse |

#### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure |
|------|-------|-----------------|-------|---------|-------------|----------|
|------|-------|-----------------|-------|---------|-------------|----------|



|                   |            |  |  |       |                     | Duration  |
|-------------------|------------|--|--|-------|---------------------|-----------|
| ISOPROPYL ALCOHOL | Inhalation | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL 12.3 mg/l     | 24 months |
| ISOPROPYL ALCOHOL | Inhalation | nervous system   | All data are negative  | Rat   | NOAEL 12 mg/l       | 13 weeks  |
| ISOPROPYL ALCOHOL | Ingestion  | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL 400 mg/kg/day | 12 weeks  |
| SODIUM AZIDE      | Ingestion  | vascular system  | Causes damage to organs through prolonged or repeated exposure               | Human | NOAEL NA            | 2.5 years |
| SODIUM AZIDE      | Ingestion  | central nervous system   | May cause damage to organs through prolonged or repeated exposure            | Rat   | LOAEL 5 mg/kg/day   | 103 weeks |
| SODIUM AZIDE      | Ingestion  | liver   respiratory system   | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL 10 mg/kg/day  | 103 weeks |
| SODIUM AZIDE      | Ingestion  | heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   kidney and/or bladder | All data are negative  | Rat   | NOAEL 10 mg/kg/day  | 103 weeks |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## SECTION 12: Ecological information

**Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

**EPA Hazardous Waste Number (RCRA):** Not regulated

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

### NFPA Hazard Classification

Health: 0 Flammability: 0 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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### SECTION 1: Identification

#### 1.1. Product identifier

3M Extractant XM

#### Product Identification Numbers

LE-B100-0345-3

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Intermediate

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Food Safety Department                  |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable.

#### 2.3. Hazards not otherwise classified

None.

**SECTION 3: Composition/information on ingredients**

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>% by Wt</b>     |
|-------------------|-------------------|--------------------|
| Water             | 7732-18-5         | 95 - 100           |
| Cationic Agent    | 18472-51-0        | < 1 Trade Secret * |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

No need for first aid is anticipated.

**Skin Contact:**

No need for first aid is anticipated.

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**

No need for first aid is anticipated.

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid release to the environment.

**7.2. Conditions for safe storage including any incompatibilities**

Store away from heat.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

**8.2. Exposure controls****8.2.1. Engineering controls**

No engineering controls required.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Eye protection not required.

**Skin/hand protection**

No chemical protective gloves are required.

**Respiratory protection**

Respiratory protection is not required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                  |                          |
|----------------------------------|--------------------------|
| <b>General Physical Form:</b>    | Liquid                   |
| <b>Odor, Color, Grade:</b>       | Colorless liquid         |
| <b>Odor threshold</b>            | <i>No Data Available</i> |
| <b>pH</b>                        | <i>No Data Available</i> |
| <b>Melting point</b>             | <i>No Data Available</i> |
| <b>Boiling Point</b>             | <i>No Data Available</i> |
| <b>Flash Point</b>               | <i>Not Applicable</i>    |
| <b>Evaporation rate</b>          | <i>No Data Available</i> |
| <b>Flammability (solid, gas)</b> | <i>Not Applicable</i>    |
| <b>Flammable Limits(LEL)</b>     | <i>No Data Available</i> |

|                           |                            |
|---------------------------|----------------------------|
| Flammable Limits(UEL)     | No Data Available          |
| Vapor Pressure            | Negligible                 |
| Vapor Density             | No Data Available          |
| Density                   | 1 g/ml                     |
| Specific Gravity          | 1 g/cm3 [Ref Std: WATER=1] |
| Solubility in Water       | Complete                   |
| Solubility- non-water     | No Data Available          |
| Autoignition temperature  | No Data Available          |
| Decomposition temperature | No Data Available          |
| Viscosity                 | No Data Available          |
| Percent volatile          | No Data Available          |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      | Not Specified    |

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

No known health effects.

#### Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion:**

No known health effects.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name            | Route     | Species | Value   |
|-----------------|-----------|---------|---|
| Overall product | Ingestion |         | No data available; calculated ATE > 5,000 mg/kg |
| Cationic Agent  | Dermal    | Rabbit  | LD50 > 5,000 mg/kg                              |
| Cationic Agent  | Ingestion | Rat     | LD50 2,000 mg/kg                                |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name           | Species | Value                     |
|----------------|---------|---------------------------|
| Cationic Agent | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name           | Species | Value     |
|----------------|---------|-----------|
| Cationic Agent | Rabbit  | Corrosive |

**Skin Sensitization**

| Name           | Species          | Value  |
|----------------|------------------|--|
| Cationic Agent | Human and animal | Some positive data exist, but the data are not sufficient for classification |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name           | Route    | Value         |
|----------------|----------|---------------|
| Cationic Agent | In Vitro | Not mutagenic |
| Cationic Agent | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name           | Route     | Species                 | Value            |
|----------------|-----------|-------------------------|------------------|
| Cationic Agent | Ingestion | Multiple animal species | Not carcinogenic |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name           | Route     | Value  | Species | Test Result        | Exposure Duration |
|----------------|-----------|--|---------|--------------------|-------------------|
| Cationic Agent | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 30 mg/kg/day | during gestation  |

**Target Organ(s)**



**Specific Target Organ Toxicity - single exposure**

| Name           | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|----------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| Cationic Agent | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name           | Route     | Target Organ(s)                              | Value  | Species | Test Result          | Exposure Duration |
|----------------|-----------|--|--|---------|----------------------|-------------------|
| Cationic Agent | Ingestion | liver  | Some positive data exist, but the data are not sufficient for classification | Dog     | NOAEL 0.89 mg/kg/day | 1 years           |
| Cationic Agent | Ingestion | immune system                                | Some positive data exist, but the data are not sufficient for classification | Rabbit  | NOAEL 71 mg/kg/day   | 2 years           |
| Cationic Agent | Ingestion | hematopoietic system   kidney and/or bladder | All data are negative  | Rat     | NOAEL 71 mg/kg/day   | 2 years           |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**EPA Hazardous Waste Number (RCRA):** Not regulated

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information**

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No   Pressure Hazard - No   Reactivity Hazard - No   Immediate Hazard - No   Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

|  |
|--|
| <b>This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.</b> |
|--|

## SECTION 16: Other information

#### NFPA Hazard Classification

**Health:** 0 **Flammability:** 0 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

Enzyme B10

#### Product Identification Numbers

GH-6205-0780-2

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Kit Component, Reagent for detection of Adenosine Triphosphate used as part of the 3M Biomass Detection Kit.

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M  |
| <b>DIVISION:</b>     | 3M United Kingdom<br>Food Safety Department |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA     |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)             |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable.

#### 2.3. Hazards not otherwise classified

None.

24% of the mixture consists of ingredients of unknown acute oral toxicity.

### SECTION 3: Composition/information on ingredients

| Ingredient  | C.A.S. No.  | % by Wt   |
|---|-------------|-----------|
| SUCROSE   | 57-50-1     | 40 - 70   |
| SODIUM 4-2(-HYDROXYETHYL)PIPERAZIN-1-YLETHANESULPHONATE | 75277-39-3  | 10 - 30   |
| HEPES ACID  | 7365-45-9   | 3 - 7     |
| MAGNESIUM SULFATE                                       | 7487-88-9   | 3 - 7     |
| WATER   | 7732-18-5   | 3 - 7     |
| BOVINE SERUM ALBUMIN                                    | 9048-46-8   | 0.5 - 1.5 |
| EDTA  | 60-00-4     | 0.5 - 1.5 |
| DITHIOTHREITOL  | 3483-12-3   | 0.1 - 1.0 |
| LUCIFERIN   | 115144-35-9 | 0.1 - 1.0 |
| LUCIFERASE  | 61970-00-1  | < 0.01    |
| TETRA SODIUM PYROPHOSPHATE                              | 7722-88-5   | < 0.01    |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

##### Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

##### Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

##### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

##### Substance

##### Condition

Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen  
Oxides of Sulfur

During Combustion  
During Combustion  
During Combustion  
During Combustion

### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Observe precautions from other sections.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type  | Additional Comments            |
|------------|------------|--------|---|--------------------------------|
| SUCROSE    | 57-50-1    | ACGIH  | TWA:10 mg/m <sup>3</sup>  | A4: Not class. as human carcin |
| SUCROSE    | 57-50-1    | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup> |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:  
Safety Glasses with side shields

#### Skin/hand protection

No chemical protective gloves are required.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                                     |
|--|-------------------------------------|
| <b>General Physical Form:</b>                  | Solid                               |
| <b>Specific Physical Form:</b>                 | Freeze Dried Powder                 |
| <b>Odor, Color, Grade:</b>                     | DTT Odour; White Colour             |
| <b>Odor threshold</b>                          | <i>No Data Available</i>            |
| <b>pH</b>                                      | 7.7 - 7.8 [Test Method: ISO METHOD] |
| <b>Melting point</b>                           | <i>No Data Available</i>            |
| <b>Boiling Point</b>                           | <i>No Data Available</i>            |
| <b>Flash Point</b>                             | <i>Not Applicable</i>               |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>            |
| <b>Flammability (solid, gas)</b>               | Not Classified                      |
| <b>Flammable Limits(LEL)</b>                   | <i>Not Applicable</i>               |
| <b>Flammable Limits(UEL)</b>                   | <i>Not Applicable</i>               |
| <b>Vapor Pressure</b>                          | <i>No Data Available</i>            |
| <b>Vapor Density</b>                           | <i>No Data Available</i>            |
| <b>Density</b>                                 | <i>No Data Available</i>            |
| <b>Specific Gravity</b>                        | <i>No Data Available</i>            |
| <b>Solubility in Water</b>                     | Complete                            |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>            |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>            |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>            |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>            |
| <b>Viscosity</b>                               | <i>No Data Available</i>            |
| <b>Percent volatile</b>                        | <i>No Data Available</i>            |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

#### Eye Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| Name              | Route     | Species | Value   |
|-------------------|-----------|---------|---|
| Overall product   | Ingestion |         | No data available; calculated ATE > 5,000 mg/kg |
| SUCROSE           | Ingestion | Rat     | LD50 29,700 mg/kg                               |
| MAGNESIUM SULFATE | Ingestion | Mouse   | LD50 > 5,000 mg/kg                              |
| EDTA              | Ingestion | Rat     | LD50 > 2,000 mg/kg                              |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Serious Eye Damage/Irritation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Skin Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Carcinogenicity**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Specific Target Organ Toxicity - repeated exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

## SECTION 12: Ecological information

**Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.



Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

**EPA Hazardous Waste Number (RCRA):** Not regulated

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No   Pressure Hazard - No   Reactivity Hazard - No   Immediate Hazard - Yes   Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

This material is not listed on the TSCA inventory and should be used for research and development purposes only under the direct supervision of a technically qualified individual.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

|   |
|---|
| This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
|---|

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 1 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

|                        |           |                         |          |
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