

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PlexBio 100 Service Kit

Manufacturer/Supplier: PlexBio Co., Ltd.
 6F-1, No. 351 Yangguang Street, Neihu District, Taipei 114
 Taiwan, R.O.C.
 Tel: (02) 2627-5878
 Fax: (02) 2627-5979

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

| Kit Contents | Known Hazardous Components | CAS# | Concentration |
|--------------|----------------------------|------------|---------------|
| SAPE-πCode | Sodium azide | 26628-22-8 | 0.05% |
| ME-12 Grease | Not Hazardous | - | - |

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview:

OSHA Hazards: Target Organ Effect, Highly toxic by ingestion, Highly toxic by skin absorption
Target Organs: Heart, Central nervous system, Brain.
GHS Classification: Acute toxicity, Dermal (Category 1)
 Acute toxicity, Oral (Category 2)
 Acute aquatic toxicity (Category 1)

GHS Label elements, including precautionary statements:

Pictogram:



Signal word: Danger

Hazard statement(s):

H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing.
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
P310 Immediately call a POISON CENTER or doctor/ physician.

Potential Acute Health Effects:

Eye Contact: May cause eye irritation.
Skin Contact: May be fatal if absorbed through skin. May cause skin irritation.
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed.

Potential Chronic Health Effects:

Carcinogenic Effects: Not available.
Mutagenic Effects: Not available.



MATERIAL SAFETY DATA SHEET

PlexBio 100 Service Kit

Rev. Date: 05/21/2019

| | |
|-------------------------------|---|
| Reproduction Toxicity: | Not available. |
| Sensitization: | Not available. |
| HMIS Code: | (Health: 4) (Flammability: 0) (Reactivity: 0) |
| NFPA Code: | (Health: 4) (Flammability: 0) (Reactivity: 0) |

SECTION 4: FIRST AID MEASURES

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| General information: | Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| Eye Contact: | Flush eyes with water as a precaution. |
| Skin Contact: | Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. |
| Inhalation: | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Ingestion: | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

SECTION 5: FIRE AND EXPLOSION DATA

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| Conditions of flammability: | Not flammable or combustible. |
| Suitable extinguishing media: | Dry powder. |
| Special protective equipment for fire-fighters: | Wear self-contained breathing apparatus for firefighting if necessary. |
| Hazardous combustion products: | Hazardous decomposition products formed under fire conditions. - Sodium oxides. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| Personal Precautions: | Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. |
| Environmental precautions: | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. |
| Methods for Cleaning Up: | Take up mechanically and collect in suitable container for disposal. |

SECTION 7: HANDLING AND STORAGE

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| Precautions: | Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. |
| Storage: | Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Heat sensitive. |

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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| Engineering Controls: | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Personal Protection: | Follow usual standard laboratory practices. Use appropriate chemical resistant gloves, appropriate safety glasses and wear protective work clothing. |



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PlexBio 100 Service Kit

Rev. Date: 05/21/2019

Exposure Limits: Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
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| Physical State and Appearance: | Liquid. | Vapor Pressure: | Not available. |
| Odor: | Not available. | Vapor Density: | Not available. |
| Taste: | Not available. | Volatility: | Not available. |
| pH (1% soln/water): | Not available. | Odor Threshold: | Not available. |
| Boiling Point: | Not available. | Water/Oil Dist. Coeff.: | Not available. |
| Melting Point: | Not available. | Ionicity (in Water): | Not available. |
| Critical Temperature: | Not available. | Dispersion Properties: | Not available. |
| Specific Gravity: | Not available. | Solubility: | Not available. |

SECTION 10: STABILITY AND REACTIVITY DATA

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| Stability: | The product is stable under recommended shipping and storage conditions. |
| Reactivity: | The product is stable under recommended shipping and storage conditions. |
| Conditions to Avoid: | Excess heat and moisture. |
| Materials to Avoid: | Strong acids/alkalis, strong oxidizing/reducing agents. |
| Hazardous Decomposition Products: | Not available. |
| Polymerization: | Will not occur. |

SECTION 11: TOXICOLOGICAL INFORMATION

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| Acute toxicity: | Oral LD50 | LD50 Oral - rat - 27 mg/kg |
| | Inhalation C50 | LC50 Inhalation - rat - 37 mg/m3 |
| | Remarks | Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye: Other. Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Structural or functional change in trachea or bronchi. |
| | Dermal LD50 | LD50 Dermal - rabbit - 20 mg/kg |
| Other information on acute toxicity | | Not available. |
| Potential Acute Health Effects: | | |
| | Eye Contact: | May cause eye irritation. |
| | Skin Contact: | May cause skin irritation. |
| | Inhalation: | May cause irritation of respiratory tract. |
| | Ingestion: | May be harmful if swallowed. |
| Potential Chronic Health Effects: | | |
| | Carcinogenic Effects: | Not available. |
| | Mutagenic Effects: | Not available. |
| | Reproduction Toxicity: | Not available. |
| | Sensitization: | Not available. |
| Additional Information: | | RTECS: VY8050000 |

SECTION 12: ECOLOGICAL INFORMATION

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|---------------------------------------|--|---|
| Toxicity: | Toxicity to fish | LC50 - Lepomis macrochirus - 0.68 mg/l - 96.0 h |
| | Toxicity to daphnia and other aquatic invertebrates. | EC50 - Daphnia pulex (Water flea) - 4.2 mg/l - 48 h |
| Persistence and degradability: | | Not available. |
| Bioaccumulative potential: | | Not available. |
| Mobility in soil: | | Not available. |



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|---------------------------------|--|
| PBT and vPvB assessment: | Not available. |
| Other adverse effects: | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life. |

SECTION 13: DISPOSAL CONSIDERATIONS

Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

Contaminated packaging:

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US):

UN number: 1687 Class: 6.1 Packing group: II

Proper shipping name: Sodium azide

Reportable Quantity (RQ): 1000 lbs

Marine pollutant: No Poison Inhalation

Hazard: No

IMDG:

UN number: 1687 Class: 6.1 Packing group: II EMS-No: F-A, S-A

Proper shipping name: SODIUM AZIDE

Marine pollutant: No

IATA:

UN number: 1687 Class: 6.1 Packing group: II

Proper shipping name: Sodium azide

SECTION 15: OTHER REGULATORY INFORMATION

OSHA Hazards

Target Organ Effect, Highly toxic by ingestion, Highly toxic by skin absorption

SARA 302 Components

Sodium azide CAS-No. 26628-22-8

SARA 313 Components

Sodium azide CAS-No. 26628-22-8

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Sodium azide CAS-No. 26628-22-8

Pennsylvania Right To Know Components

Sodium azide CAS-No. 26628-22-8

New Jersey Right To Know Components

Sodium azide CAS-No. 26628-22-8

California Prop. 65 Components



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Rev. Date: 05/21/2019

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate and complete. However, we can neither guarantee nor assume any liability whatsoever for the accuracy or completeness of the information contained in this MSDS. Final determination of suitability of any material is the sole responsibility of the user, as health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. All materials and mixtures may present unknown hazards and should be used with caution. No warranty is made, either express or implied.