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MSDS Information for:
Cat# P-1012
FitAmp™ Circulating DNA Assay Kit

A Material Safety Data Sheet (MSDS) for the product as a whole is not required, as it is a kit consisting of individual components.

The following components are defined as hazardous (See MSDS page)

CD2 (DNA digestion powder)
CD5 (50 X DNA assay solution)

The following components are defined as non-hazardous and do not require MSDS. The products do not contain any hazardous components about 1% or any carcinogens above 0.1% as defined in 29 CFR 1910. 1200, the OSHA Hazard Communication Standard.

CD1 (DNA digestion solution)
CD3 (DNA isolation buffer)
CD4 (DNA elution solution)
CD6 (Assay dilution buffer)
CD7 (DNA Standard, 10 µg/ml)

Material Safety Data Sheet

Section 1. Identification

Product Name	<i>FitAmp™</i> General Tissue Section DNA Isolation Kit
Product No.	P-1003
Supplier	Epigentek Group Inc 110 Bi County Blvd. Ste. 122 Farmingdale, NY 11735

In Case of Emergency 631-755-0888

Section 2. Composition, Information on Ingredients

Ingredient Name

DNA digestion Powder
Cas# 39450-01-6

Section 3. Hazards Identification

Classification of the substance or mixture: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Respiratory sensitization (Category 1), H334

Specific target organ toxicity - single exposure (Category 3),

Respiratory system, H335

Section 4. First Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
Skin Contact	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Section 5. Fire Fight Measures

Extinguishing media

Suitable extinguishing media : Water spray. Alcohol-resistant foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : None known.

Special hazards arising from the substance or mixture

Fire hazard : Not flammable

Hazardous decomposition products in case of fire

Carbon monoxide. Carbon dioxide.

Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the environment.

Protection during firefighting : As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accident Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

For emergency responders

Protective equipment: Wear respiratory protection. Wear suitable protective clothing and gloves.

Emergency procedures: Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust. Avoid contact with eyes, skin and clothing.

Environmental precautions

Notify authorities if large amounts of the product enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up: Minimise generation of dust. Sweep or shovel spills into appropriate container for disposal.

Section 7. Handling and Storage

Precautions for safe handling

Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Use only outdoors or in a well-ventilated area. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store locked up. Keep only in the original container in a cool well ventilated place. Keep

container closed when not in use. Protect from moisture.

Incompatible materials: Strong oxidizing agents.

Storage temperature: -20 °C

Specific end use(s)

Laboratory use.

Section 8. Exposure Control and Personal Protection

Control parameters

No additional information available

Exposure controls

Appropriate engineering controls:

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves. Standard EN 374 - Protective gloves against chemicals. Nitrile rubber. Material thickness: 0.11 mm. Breakthrough time :

480 minutes. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Wear suitable respiratory equipment. Nuisance dust exposure: Half mask with a particle filter P1 (EN 143). Higher level exposure: Respirator with ABEK-P2 cartridge (EN 143)

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

Section 9. Physical and Chemical Properties

Physical state : Solid

Appearance : Powder. lyophilised.
Colour : No data available
Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : Not applicable.
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

Section 10. Stability and Reactivity

Reactivity

Stable under recommended handling and storage conditions (see section 7).

. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

Possibility of hazardous reactions

None known.

Conditions to avoid

Extremely high or low temperatures.

Incompatible materials

Strong oxidizing agents. Moisture.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

Section 11. Toxicological Information

Acute toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

: Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms

: Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Dust from this product may cause respiratory irritation. Ingestion may cause irritation of the gastrointestinal tract.

Section 12. Ecological Information

No information available.

Section 13. Disposal Considerations

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

No information available

Section 15. Regulatory Information

US FEDERAL: Listed on the TSCA inventory.

Section 16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

Material Safety Data Sheet

Section 1. Identification

Product Name FitAmp™ Circulating DNA Assay Kit
Product No. P-1012
Supplier Epigentek Group Inc.
110 Bi County Blvd. Ste 122
Farmingdale, NY 11735

In Case of Emergency 631-755-0888

Section 2. Composition, Information on Ingredients

Ingredient Name

CD5 (50 X DNA assay solution) ingredient 1

Cas# 67-68-5

Section 3. Hazards Identification

Hazards May be harmful by inhalation, ingestion or skin absorption.
Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract.
Causes skin irritation. May cause allergic respiratory and skin reactions.

Chronic Effects Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Section 4. First Aid Measures

If ingested, wash out mouth with water. Call a physician. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes, assure adequate flushing by separating the eyelids with fingers.

Section 5. Fire Fight Measures

Extinguishing Media Water spray, carbon dioxide, dry chemical powder, polymer foam
Autoignition Temperature: Not applicable
Flash Point Not available
Explosion Limits Not available

Section 6. Accident Release Measures

General Information Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Absorb onto vermiculite and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and Storage

Handling Wear appropriate NIOSH/MSHHA approved respirator, chemical resistant gloves, safety goggles and other protective clothing. Mechanical Exhaust required.
Storage Store in a cool, dry place. Store in a tightly closed container

Section 8. Exposure Control and Personal Protection

Engineering Controls Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits
Eye Wear safety glasses and chemical goggles if splashing is possible
Skin Wear appropriate protective gloves to prevent skin exposure
Clothing Wear appropriate protective clothing to minimize contact with skin
Respirators Following the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149.

Section 9. Physical and Chemical Properties

Physical State Liquid

Appearance	Clear faint yellow
Odor	distinct garlic
pH	Not determined
Vapor Pressure	0.42 mmhg
Viscosity	0.002 pas
Vapor Density	2.7g/L
Boiling Point	189°C
Freeze/Melting Point	Not applicable
Specific Gravity/Density	1.1

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal handling procedures.
Incompatibilities	Acid chlorides, phosphorous halides, strong acids, strong oxidizing agents and strong reducing agents
Decomposition Products	Toxic fumes of: carbon dioxide, nitrogen oxides and sulfur oxides
Hazardous Polymerization	Has not been reported.

Section 11. Toxicological Information

RTECS#	PV6210000
LD50/LC50	Oral, rat: LD50 = 14500 mg/kg
Carcinogenicity	Not listed by OSHA, ACGIH, IARC, NTP

Section 12. Ecological Information

No information available

Section 13. Disposal Considerations

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

Section 14. Transport Information

No information available

Section 15. Regulatory Information

US FEDERAL	listed on the TSCA inventory.
Hazard Symbols:	Xi

Section 16. Other Information

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