

Material Safety Data Sheet

Human Genetic Signatures MethylEasy™ High Throughput Kit

Issue Date August 2004 **Status** ISSUED

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name Human Genetic Signatures Pty Ltd (ABN 30 095 913 205)
Address 22 Delhi Rd North Ryde
NSW 2113
Tel/Fax Tel: 61-2-9870 7580 Fax: 61-2-8569 0373
Other Information Australian Poisons Information Centre: 13 11 26

IDENTIFICATION

Product Name Human Genetic Signatures MethylEasy™ High Throughput DNA Bisulphite Modification Kit
Proper Shipping Name None Allocated - Not Considered as a Dangerous Good

Other Names	Name	Product Code
	MethylEasy™ High Throughput DNA Bisulphite Modification Kit	

UN Number None Allocated
DG Class None Allocated
Packing Group None Allocated
Hazchem Code None Allocated

Physical Data

Appearance Kit with 8 vials of differing size and other plastic plates

Other Properties

Stability Stable
Haz. Polymerization Polymerization or spontaneous reaction will not occur

Ingredients

Ingredients	Name
	Reagent 1: Alkaline Solution
	Reagent 2: Bisulphite Powder
	Reagent 3: Guanidine Thiocyanate 6.0 Molar

Information on Composition Note: Reagents 1, 2 and 3 are classified as 'Hazardous' according to the criteria of the National Occupational Health and Safety Commission (NOHSC).
Reagent 3:
This reagent will release very toxic gas in contact with acids.
Harmful in contact with skin, if inhaled or swallowed.
This kit also contains:
Reagent 4 and Control Samples are classified as not hazardous according to the criteria of NOHSC.

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed	Reagents 1 & 2: Minor effect expected due to small volume of reagents. Reagent 3: Harmful if swallowed.
Acute - Eye	Reagents: 1 & 2: Irritating to eyes. Burning, tearing and discomfort possible. Reagent 3: Systematically harmful if splashed in eyes.
Acute - Skin	Reagents 1 & 2: Irritating to skin. Reagent 3: Harmful in contact with skin.
Acute - Inhaled	Reagents 1 & 2: No toxic effect expected as a mist is difficult to produce. Mist may result in irritation. Reagent 3: Harmful by inhalation. *Contact with acids liberates very toxic cyanide gas.
Chronic	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by NOHSC, IARC, NTP, OSHA or ACGIH as a carcinogen.
Other Information	No significant adverse effects are expected from occupational exposure to other reagents and components of this kit.

First Aid

Swallowed	Reagent 1 & 2: Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician. Reagent 3: If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Eye	Reagents 1, 2 & 3: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Skin	Reagents 1 & 2: May cause skin irritation following contact. Washing the skin is advisable. Reagent 3: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Inhaled	Inhalation is not an expected route of exposure during normal use of the product. Reagent 3: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Advice to Doctor

nil

Other Health Hazard Information

nil

PRECAUTIONS FOR USE

Exposure Limits	REAGENT 1 – ALKALINE SOLUTION: NOHSC TWA : 2 mg/m ³ , peak limit (for mist) REAGENT 2 – BISULPHITE POWDER: NOHSC TWA : 5 mg/m ³ REAGENT 3 – GUANIDINE THIOCYANATE: NOHSC TWA : 5 mg/m ³
------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Personal Protection

Protective Equip.	Reagents 1,2 & 3 are hazardous and it is recommended that users wear latex gloves conforming to AS2161 and eye protection conforming to AS1336 & AS1337.
--------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------

Flammability

Fire Hazards	The kit consists of non-flammable water-based solutions and non-flammable solids.
---------------------	-----------------------------------------------------------------------------------

SAFE HANDLING INFORMATION

Storage and Transport

Handling	Personnel: Some of the content of the kit is classified as hazardous by NOHSC. When handling any chemical, standard laboratory practices and good personal hygiene is recommended. Reagent 3 must not come in contact with dilute or concentrated acids, as it liberates very toxic gas. In storage and use, segregate from acids.
Storage and	This kit is exempt from labelling under the Australian Dangerous Goods Code. Control samples require to be stored at -20°C.
Transport	All other ingredients can be stored at room temperature in cool, dark conditions. Reagent 2 is light sensitive.
Proper Shipping Name	None Allocated

Spills and Disposal

Spills & Leaks	Spilled material is a slipping hazard. Initial containment using absorbent paper towel or similar material, then rinse with water and dry.
Disposal	This material may be acceptable for treatment by a Publicly Owned Treatment Works. Follow all Federal and Local regulations.

Fire/Explosion Hazard

Fire/Explosion Hazard	Reagent 3 emits toxic off-gassing when burnt.
Extinguishing Media	Use media appropriate for surrounding material.
Hazchem Code	None Allocated

OTHER INFORMATION

Risk Statement	R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R32 Contact with acids liberates very toxic gas. R36/38 Irritating to eyes and skin.
Safety Statement	S13 Keep away from food, drink and animal feeding stuffs. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S24/25 Avoid contact with skin and eyes. S37/39 Wear suitable gloves and eye/face protection.
Pkg. & Labelling	Contains: Alkaline solution Xi Irritant (In Reagent 1), Bisulphite Powder Xi Irritant (In Reagent 2), Guanidine Thiocyanate Xn Harmful (In Reagent 3)

**Hazard
Category** Xn Harmful

CONTACT POINT

Contact For sales, technical, and all product related enquiries contact Human Genetic Signatures office on 61-2-9870 7580. Ask for the customer service, Technical, or marketing personnel for the product relative to the enquiry.
The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

End of MSDS
