Works:

Plot Nos. M 46 - 47, Phase III B, Verna Industrial Estate, Verna, Goa - 403 722, INDIA.
Tel.: (0832) 6624502 / 6682000, Fax: (0832) 6680156.

E-mail: zephyr@tulipgroup.com

MATERIAL SAFETY DATA SHEET

1. INFORMATION ON THE SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name :BornSafe TSH

Kit	Components			
BornSafe TSH	TSH Calibrator Level C0 to C5 TSH Control Level L1 and L2 TSH Enzyme Reagent Extraction Reagent Substrate Solution Stop Solution Wash Solution Coated Microwells Sealing tape Pack insert Protocol sheet Microwell Holder			

1.2 Intended Use

: Born Safe™ Neonatal TSH Screening ELISA is an enzyme immunoassay for the quantitative determination of human thyroid stimulating hormone in dried blood samples spotted on Whatman 903 filter paper. This kit is particularly suitable for screening for primary hypothyroidism in newborns. Elevated results indicate the need for further study to assess congenital hypothyroidism.

1.3 Company

: ZEPHYR BIOMEDICALS

(A Division of Tulip Diagnostics (P) Ltd.)

Plot Nos. M 46-47, Phase III B,

Verna Industrial Estate,

Verna, Goa- 403 722, INDIA.

Phone: 91 832 6682000

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Email: zephyr@tulipgroup.com



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1.4 In emergencies: Call your local emergency center.

2. Composition / Information on Hazardous Ingredients

Chemical Name		% W/V	Exposure Limits in Air				
	CAS#		ACGIH		OSHA		OTHER
			TLV	STEL	PEL	STEL	5296 10606C 10007778208

TSH Calibrator Level C0 to C5: No Hazardous components

TSH Control Level L1 and L2: No Hazardous components

TSH Enzyme Reagent: No Hazardous components

Extraction Reagent: No Hazardous components

Substrate Solution: No Hazardous components

Stop Solution: No Hazardous components

Wash Solution: No Hazardous components

Coated Microwells: No Hazardous components

Sealing tape: No Hazardous components

Pack insert: No Hazardous components

Protocol sheet: No Hazardous components

Microwell Holder: No Hazardous components

3. Hazard Identification

According to 1999/45/EC, the preparation is classified as non hazardous substance or mixture.

Other Information

Material of human/animal origin is used for the preparation of this kit. No test can guarantee complete absence of these viruses, all samples and reagents used for the assay must be considered potentially infectious, therefore the assay waste must be decontaminated and disposed off, in accordance with established safety procedures.

4. First Aid Measures

Inhalation:

Allow victim to breath fresh air. Allow the victim to rest.

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Corporate Office: Gitanjali, Tulip Block, Dr. Antonio Do Rego Bagh, Bambolim Complex Post Office, Goa - 403 202, INDIA. Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com



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E-mail: zephyr@tulipgroup.com

Ingestion:

Rinse mouth. Do not induce vomiting. Obtain emergency medical attention.

Skin Contact:

Wash with plenty of soap and water. wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention immediately.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and continue rinsing. If irritation persists, immediately call a doctor.

5. Fire Fighting Measures

Flash Point (Method used): NA

Flammable Limits - LEL: NA

UEL: NA

Extinguishing Media:

Use fire-extinguishing media appropriate for site conditions.

Special Fire Procedures:

Use water spay or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

Unusual Fire and Explosion Hazards:

NA.

6. Accidental Release Measures

Steps to be taken in case material is Released or Spilled:

PPE should be used: lab gloves, chemical resistant apron, boots and splash goggles. Use an absorbent material to contain / pick up the spilled solution. Place all spill residue into a suitable container, seal, label and hold for disposal.

7. Handling and Storage

Refer to packet insert for additional information on handling and storage procedures.

8. Exposure Controls and Personal Protection

Ventilation Data:

A system of local and / or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is

generally preferred because it can control the emissions of the contaminant at its source.

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Respiratory Protection:

Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow OSHA respirator regulations (29CFR1910.134) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide worker protection for given working conditions, level of airborne concentration, and presence of sufficient oxygen.

Protective Gloves:

Wear appropriate protective gloves and Clothing to prevent skin contact.

Other Protective Equipment:

Wear appropriate eye protection to prevent eye contact. Wear appropriate body protection to prevent skin contact.

Other Engineering Controls:

Eye wash stations and deluge showers.

Work Practices:

Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Avoid contact with eyes or skin. Do not place in mouth.

Hygienic Practices:

Do not eat, drink, or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

9. Physical And Chemical Properties

TSH Calibrator Level C0 to C5

Relative Vapour density (air = 1) : NA Evaporation rate(nBuAc = 1): NA

Specific Gravity (water = 1) : NA Freezing / Melting Point : NA

Solubility in Water : NA Boiling

Point : NA Vapour Pressure, mm Hg @ 20°C: NA

pH : NA Blood tested negative for anit-HIV, anti-HCV and HBsAg.

TSH Control Level L1 and L2

Relative Vapour density(air = 1) : NA Evaporation rate(nBuAc = 1): NA Specific Gravity (water = 1) : NA Freezing / Melting

Point : NA Freezing / Melting



MSDS BornSafe TSH,Page 4 of 8 Corporate Office: Gitanjali, Tulip Block, Dr. Antonio Do Rego Bagh, Bambolim Complex Post Office, Goa - 403 202, INDIA. Tel.: (0832) 2458546-51, Fax: (0832) 2458544.

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a revvity company

CIN: U85195GA1988PTC005717

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Tel.: (0832) 6624502 / 6682000, Fax: (0832) 6680156.

E-mail: zephyr@tulipgroup.com

Solubility in Water

NA

Boiling

Point

: NA

Vapour Pressure, mm Hg @ 20°C: NA

: NA

Blood tested negative for anit-HIV, anti-HCV and HBsAg.

TSH Enzyme Reagent

Relative Vapour density(air = 1) :

Evaporation

rate(nBuAc = 1): NA Specific Gravity (water = 1)

NA

Freezing / Melting

Point : NA

Solubility in Water

NA

Point

: NA

Boiling

Vapour Pressure, mm Hg @ 20°C: NA

Extraction Reagent

Relative Vapour density(air = 1) :

NA

Evaporation

rate(nBuAc = 1): NA

Specific Gravity (water = 1)

NA

Freezing / Melting

: NA Point

Solubility in Water

NA

Boiling

Point

: NA

Vapour Pressure, mm Hg @ 20°C: NA

: 7.3 to 7.4

Substrate Solution

Relative Vapour density(air = 1) :

NA

Evaporation

rate(nBuAc = 1): NA

Specific Gravity (water = 1)

NA

Freezing / Melting

Point: NA

Solubility in Water

: NA

NA

Boiling

Vapour Pressure, mm Hg @ 20°C: NA

Stop Solution

Relative Vapour density(air = 1) :

NA

Evaporation

rate(nBuAc = 1): NA Specific Gravity (water = 1)

NA

Freezing / Melting

: NA Point

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Zephyr Biomedicals A Division of Tulip Diagnostics (P) Ltd.

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Solubility in Water : NA Boiling
Point : NA
Vapour Pressure, mm Hg @ 20°C: NA
pH : <3.0

Wash Solution

Relative Vapour density(air = 1) : NA Evaporation rate(nBuAc = 1): NA

Specific Gravity (water = 1) : NA

NA Freezing / Melting

Point : NA

Solubility in Water : NA Boiling

Point : NA

Vapour Pressure, mm Hg @ 20°C: NA pH : 8.7 to 8.9

Coated Microwells

Relative Vapour density(air = 1) : NA Evaporation

rate(nBuAc = 1): NA

Specific Gravity (water = 1) : NA Freezing / Melting

Point : NA

Solubility in Water : NA Boiling

Point : NA

Vapour Pressure, mm Hg @ 20°C: NA

oH : NA

Odour and Appearance Information

TSH Calibrator Level C0 to C5: Dried Blood Spots
TSH Control Level L1 and L2: Dried Blood Spots

TSH Enzyme Reagent: Solution with Protein stabilizers and Preservative

Extraction Reagent: Solution with Protein stabilizers and Preservative

Substrate Solution: Aromatic solution containing TMB

Stop Solution: Diluted mineral acid

Wash Solution: Buffer Solution with preservative and surfactant

Coated Microwells: No Hazardous components



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10. Stability and Reactivity

Incompatibility (Materials to Avoid): Strong oxidizers, Strong bases, metals.

Hazardous Decomposition Products: Fume.

Will Hazardous Polymerization Occur? Hazardous polymerization will not occur.

Conditions to Avoid / Polymerization:NA Is the Product Stable?
Yes, under normal handling and storage conditions.

Conditions to Avoid/stability

Direct sunlight, Extremely high or low temperatures. Stable under normal conditions.

11.Toxicological Information

Toxicity Data:

NA

Reproductive effects:

NA

Target organ Effects:

NA

Carcinogenicity: No

CHEMICAL NAME	CAS#	%	NTP C	Carcinogen	IADO	00114
OTTENTION LE TAVITALE	O/ 10 #	W/V		Anticipated	IARC	OSHA
NA.						

12. Ecological Information

Environmental Fate / Stability:NA

Effect of Material on plants or animals:NA

Effect of Chemical on Aquatic Life:NA



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13. Disposal Considerations

EPA Waste Number and Proper Waste Disposal Method:

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local state and federal regulations

14. Transportation Information

Is this Material Hazardous? Not regulated under transportation regulations.

Proper Shipping Name: NA

Hazard Class Number: NA

NA

Packing Group: NA

UN Number:

15. Regulatory Information NA.

16. Other Information

This product is designed for use by professionals.

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. It remains the user's own responsibility to make sure that the information is appropriate and complete for his specific use of this product. The user is also responsible for observing any laws and applicable guidelines.

MSDS Established: OCTOBER 2020

Version No: 01



