



## MATERIAL SAFETY DATA SHEET

CHEMICAL IDENTITY Polyethylene Glycol

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT NAME: Signal Booster, Signal Booster Neo

Signal Booster Immunostain and

components of below ELISA kits;

HB Pre-S1 antigen Quantitative ELISA kit, Rapid (BCL-S1HP-01) HB Pre-S2 antigen Quantitative ELISA kit, Rapid (BCL-S2HP-01) Urine Antibody detection kit for Visceral Leishmaniasis (BCL LEI-01)

PRODUCT CODE: BCL-105,BCL-110,BCL-125,BCL-110A,BCL-125A,BCL-110B,BCL-125B, BCL-

IS,BCL-ISF,BCL-ISM, BCL-ISS, BCL-SBN-01,BCL-SBN-02,BCL-DBR, BCL-DBR1,

CHEMICAL IDENTIFICATION: Polyethylene Glycol

CONTENT IN THE PRODUCT: below 6%

RECOMMENDED USE: Western blottting, ELISA, Immunostaining (for research use only)

MANUFACTURER: Beacle Inc. SUPPLIER: Beacle Inc.

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(THE BELOW DESCRIPTION IS APPLIED FOR THE IDENTIFIED CHEMICAL OF 100%)

2. HAZARDS IDENTIFICATION

SYMBOL: HAZARD STATEMENTS, including R-phrase:

ADDITIONAL HAZARD STATEMENTS : May be harmful if inhaled and ingested.

May cause eye and skin irritation.

PRECAUTIONARY STATEMENTS, including S-phras -

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMILCAL IDENTITY: Polyethylene Glycol FORMULA: H(OCH2CH2)nOH MOLECULAR WEIGHT: not identified CAS NUMBER: 25322-68-3 TSCA INVENTORY: Listed

EINECS No.: Not listed EC INDEX NUMBER: Not listed

4. FIRST AID MEASURES

GENERAL ADVICE: Wash off immediately with soap and plenty of water. In the case of respirable dust

and/or fumes, use self-contained breathing apparatus and dust impervious protective

suit. Use personal protective equipment.

INHALATION: Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists,

consult a physician.

SKIN CONTACT: Remove contaminated clothes and shoes, rinse skin with plenty of water or shower.

Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT: Remove any contact lenses at once. Flush eyes well with a large amount of running

water for at least 15 minutes. Assure adequate flushing by separating the eyelids with

sterile fingers. If irritation persists, consult a physician.

INGESTION: Rinse mouth, give plenty of water to dilute the substance. Never give anything by

mouth to an unconscious person. Consult a physician.

5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical powder, foam, water FIRE & EXPLOSION HAZARDS: Toxic, irritating dust or smoke may be emitted.

SPECIAL PROTECTIVE EQUIPMENT FOR Firemen should wear normal protective equipment(full bunker gear)and positive-

pressure self-contained breathing apparatus. FIREFIGHTERS:

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Remove ignition sources and ventilate the area. In case of insufficient ventilation,

wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin

**ENVIRONMENTAL PRECAUTIONS:** Prevent spills from entering sewers, watercourses or low areas.

METHODS FOR CLEANING UP: Do not touch spilled material without suitable protection(See section 8). After material

is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or

dispose of contaminated clothing.

7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Handle material with suitable protection.

CONDITIONS FOR SAFE STORAGE: Store away from sunlight in well-ventilated dry place at room temperature. Keep

container tightly closed.

INCOMPATIBILITIES: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ENGINEERING MEASURES: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use

only with adequate ventilation.

VENTILATION: Local Exhaust; Necessary, Mechanical(General); Recommended

INDIVIDUAL PROTECTION MEASURES;

Respiratory protection: Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor

concentrations exceed regulatory guidelines.

Hand protection:

Eye protection:

Skin protection:

Chemical resistant gloves
Safety glasses(goggles)
Protective clothing

CONTROL PARAMETER : OSHA Final Limits :

ACGIH TLV(s):

None established None established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White - nearly white, flake
ODOUR: Almost odourless

pH: 4.5-7.5 (50 g/ I at 25 °C= 77 °F)

FREEZING POINT : 50-65 °C= 122-149 °F

INITIAL BOILING POINT:

FLASH POINT:

FLAMMABILITY (solid, gas):

EXPLOSIVE LIMITS:

Not available

Not available

VAPOR PRESSURE: <0.01 hPa (20 °C= 68 °F)

SPECIFIC GRAVITY: 1.128

SOLUBILITY IN;

WATER: Freely soluble (550 g/L at 20 °C= 68 °F)

PARTITION COEFFICIENT:

AUTOIGNITION TEMPERATURE:

DECOMPOSITION TEMPERATURE:

VISCOSITY:

Not available

420 °C= 788 °F

>220 °C= 428 °F

200 - 400 m pa/s

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Will not occur.
CONDITIONS TO AVOID: Sunlight, heat
INCOMPATIBILE MATERIALS: Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide may be formed.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY(oral/dermal/inhalation): LD50(orl,rat): 50gm/kg(34ZIAG -,747,1969)

LD50(ipr,rat): 6790gm/kg(ARZNAD 3,451,1953)

SKIN CORROSION/IRRITATION: rabbit; 500mg; Mild(UCDS\*\* 4/9/1965)

EYE DAMAGE/EYE IRRITATION : rabbit; 500mg/24H; Mild(85JCAE -, 1413,1986)

RESPIRATORY OR SKIN SENSITIZATION: Not available

GERM CELL MUTAGENICITY: DNA damage; rat; cells; 100gm/L(PNASA6 72,4288,1975)

Cytogenetic analysis; hamster; cells; 50 pph(DKBSAS 240,228,1978)

TOXIC TO REPRODUCTION:

STOST-SINGLE EXPOSURE:

Not available
STOST-REPEATED EXPOSURE:

ASPIRATION TOXICITY:

CARCINOGENICITY:

Not available
Not available

ADDITIONAL INFORMATION;

NTP: Not listed IARC: Not listed OSHA: Not listed ACGIH: Not listed

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Not available

PERSISTENCE AND DEGRADABILITY: This material is biodegradable.

BIOACCUMULATION POTENTIAL: Not available MOBILITY IN SOIL: Not available OTHER ADVERSE EFFECTS: WGK: 1

13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER)

Burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal After contents are completely removed, dispose of its container at hazadous or special waste collection point. (in accordance with

14. TRANSPORT INFORMATION

IATA: Not Restricted.

MARINE POLLUTANT : Yes

DOT(Department of Transportation): Not a Hazardous Material for DOT shipping.

15. REGULATORY INFORMATION

US REGULATIONS ; TSCA CHIPs,

EPA: CERCLA RQ= Not listed

EPCRA TPQ= Not listed

OSHA: TQ= Not listed

16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

No specific notes

The information described above is believed to be correct to be the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide. The product should be used by expert persons having knowledge and skill with their own risk. Beacle shall not be held liable for any damageresulting from handling or from contact with the above material.