SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name	Insulcel System
Recommended use of the chemical and restrictions on use	
Identified uses	Protein concrete foam concentrate
Restrictions on Use	None
Supplier	Siplast 1000 Rochelle Blvd. Irving, TX 75062
Customer Information Number	800-922-8800
Emergency Telephone Number	800-4242-9300

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification
Carcinogenicity - Category 2
Acute Hazards to the Aquatic Environment - Category 2 (OSHA non-mandatory)

Label Elements
Hazard Symbols

Signal Word: Warning

Hazard Statements
Suspected of causing cancer.
Toxic to aquatic life.

Precautionary Statements

Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection, and face protection.
Avoid release to the environment.
Response
If exposed or concerned: Get medical advice/attention.
Storage
Store locked up.
Disposal
Dispose of contents/container in accordance with local regulation.

Other Hazards
None identified.

SECTION 2: HAZARD IDENTIFICATION (cont'd)

Specific Concentration Limits
The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	30 - 40%
Acute dermal toxicity	30 - 40%
Acute inhalation toxicity	40 - 50%
Acute aquatic toxicity	40 - 50%

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration
Water	7732-18-5	45 - 55%
Hexylene Glycol	107-41-5	1 - 5%
Ferrous Sulfate	7720-78-7	1 - 5%
Zinc Oxide	1314-13-2	0.1 - <1.0%
Sodium o-phenylphenate	132-27-4	0.1 - <1.0%

SECTION 4: FIRST- AID MEASURES

Description of necessary first-aid measures
Eyes
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
Skin
Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.
Ingestion
Dilute by drinking large quantities of water and obtain medical attention.
Inhalation
Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

Most important symptoms/effects, acute and delayed
Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed
Notes to Physicians
Treat symptomatically.

SECTION 5: FIRE - FIGHTING MEASURES

Suitable Extinguishing Media
Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

SECTION 5: FIRE - FIGHTING MEASURES (cont'd)

Specific hazards arising from the chemical
This product will foam when mixed with water. May release hazardous vapors during a fire.

Special Protective Actions for Fire-Fighters
Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing. Prevent skin and eye contact.

Environmental Precautions
Prevent large quantities of the material from entering drains or watercourses.

Methods and materials for containment and cleaning up
Contain and absorb using appropriate inert material and transfer into suitable containers for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate protective clothing. Prevent skin and eye contact.

Conditions for safe storage
Store in original containers between 20°F and 120°F (-7°C and 49°C). Storage area should be: cool - dry - well ventilated - away from incompatible materials - out of direct sunlight - away from sources of ignition (heat, sparks, flames, and pilot lights)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.
Hexylene Glycol
ACGIH: TLV 25 ppm, 8hr, 121 mg/m^3 Ceiling
Zinc Oxide
ACGIH: TLV 2 mg/m^3 8h TWA, respirable fraction, 15 min STEL 10 mg/m^3
OSHA: Z-1 PEL 5 mg/m^3, zinc oxide fume
OSHA: Z-1 PEL 5 mg/m^3, respirable fraction
OSHA: Z-1 PEL 15 mg/m^3, total dust
Ferrous Sulfate as Iron Salts, Soluble, as Fe
ACGIH: TLV 1 mg/m^3 8h TWA
OSHA: PEL 1 mg/m^3 8h TWA
Sodium o-phenylphenate
Manufacturer Industrial Hygiene Guideline: 1 mg/m^3 TWA

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (cont'd)

Appropriate engineering controls
Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Individual protection measures
Respiratory Protection
Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.
Skin Protection
Rubber or PVC gloves
Eye/Face Protection
Chemical goggles, face shield or safety glasses with side shields.
Body Protection
Protective clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid
Color	Dark Brown
Odor	Organic
Odor Threshold	No data available
pH	7.2
Specific Gravity	1.17
Boiling Range/Point (°C/F)	No data available
Freezing Point (°C/F)	No data available
Flash Point (°C/F)	No flammable
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	Not applicable
VOC (%)	No data available
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	No data available
Upper explosive limit	Not applicable
Lower explosive limit	Not applicable
Flammability (solid, gas)	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.
Conditions to Avoid
Contact with incompatible materials

Incompatible Materials
Strong acids - strong bases - strong oxidizers - strong reducing agents

Hazardous Decomposition Products
Oxides of carbon - sulfur oxides -iron oxides - hydrogen chloride gas - sodium oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity
Hexylene Glycol
LD50 Oral (rat) >2000 mg/kg
LD50 Dermal (rat) >2000 mg/kg
Ferrous Sulfate
LD50 Oral (rat, male) 1025 mg/kg
LD50 Dermal (rat) >2000 mg/kg (similar substance)

Specific Target Organ Toxicity (STOT) – single exposure
No relevant studies identified.

Specific Target Organ Toxicity (STOT) – repeat exposure
No relevant studies identified.

Serious Eye damage/Irritation
Hexylene Glycol: Causes serious eye irritation.
Ferrous Sulfate: Causes serious eye irritation.

Skin Corrosion/Irritation
Hexylene Glycol: Causes skin irritation
Ferrous Sulfate: Causes serious eye irritation.

Respiratory or Skin Sensitization
No relevant studies identified.

Carcinogenicity
Sodium o-phenylphenate: IARC Overall Evaluation is: 2B (possibly carcinogenic to humans)

Reproductive Toxicity
No relevant studies identified.

SECTION 11: TOXICOLOGICAL INFORMATION (cont'd)

Germ Cell Mutagenicity
No relevant studies identified.

Aspiration Hazard
Not an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Zinc Oxide
LC50 Rainbow trout, 96h, 1.1 mg/l
EC50 Daphnia magna, 48h, 0.098 mg/l
Aquatic Chronic - Category 1, Very toxic to aquatic life with long lasting effects (ECHA classification)

Mobility in soil
No relevant studies identified.

Persistence/Degradability
No relevant studies identified.

Bioaccumulative Potential
No relevant studies identified.

Other adverse effects
No relevant studies identified.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods
This product, as sold, is not a RCRA-listed waste or hazardous waste as characterized by 40 CFR 261. However, state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Therefore, applicable local and state regulatory agencies should be contacted regarding disposal of waste foam concentrate or foam/foam solution.

Do not flush to waterways. Disposal should be made in accordance with local, state and federal regulations. Discharge into a biological sewer treatment facility may be done with prior approval. Low dosage flow rate or antifoaming agents acceptable to the treatment facility may be helpful. Specific concerns may be high BOD load and foaming tendency. Dilution will reduce BOD and COD factors proportionately.

SECTION 14: TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated
UN Proper Shipping Name	Not Regulated
UN Class	None
UN Number	None
UN Packaging Group	None
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.
Environmental Hazards	Not a marine pollutant

National Motor Freight Classification

Shipping Description	Foam for Concrete
NMFC Code	Class 55

This information is not intended to convey all transportation classifications that may apply to this product. Classifications may vary by container volume and by regional regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules when transporting this material.

SECTION 15: REGULATORY INFORMATION

United States TSCA Inventory
All components of this product are in compliance or are exempt from inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Canada DSL Inventory
All ingredients in this product have been verified for listing on the Domestic Substance List (DSL) or are exempt from listing.

SARA Title III Sect. 311/312 Categorization
Delayed (Chronic) Health Hazard

SARA Title III Sect. 313
This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: Sodium o-phenylphenate

SECTION 16: OTHER INFORMATION

Legend
ACGIH: American Conference of Governmental Industrial Hygienists
BOD: Biochemical Oxygen Demand
CAS#: Chemical Abstracts Service Number
COD: Chemical Oxygen Demand
EC50: Effect Concentration 50%
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
RQ: Reportable Quantity
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Information Source and References
This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.
Prepared By: Siplast

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