
Section 1- Product and Company Identification
BIOSENS

Date of MSDS: Tuesday, June 24, 2014

Product Identification: **BIOSENS**

Product Class/Use: **MOULDING COMPOUND**

Company Name: **PERFLEX Ltd.**

7 Giborey Israel St. Industrial Area Poleg
Netanya 4250407, P.O.B 8123, Israel

General Information Telephone: Emergency Telephone: Not required by regulations.

Section 2- Composition/Information on Ingredients
BIOSENS

Polyamide compound Dangerous components: Void

Biosens does not contain any components considered to be health hazard under the OSHA Hazard Communication Standard in 29 CFR §1910.1200 or under the WHMIS Controlled Product Regulation in Canada, USA and Europe.

Section 3- Hazards Identification, Including Emergency Overview
BIOSENS

---- Emergency Overview ----

Caution! Fumes from hot processing may be irritating to eyes and respiratory tract.

Routes of Exposure/Potential Health Hazards:

Inhalation: Dust or fumes from hot processing may cause irritation.

Eyes: Fumes from hot processing may cause eye irritation

Skin: Not expected in normal use.

Ingestion: Not expected route of exposure

Section 4- First Aid Measures
BIOSENS

First Aid:

Inhalation: If fumes from hot processing are inhaled, victim should be moved into fresh air. If breathing is difficult, victim should be given oxygen. If unconscious, evaluate need for artificial respiration and obtain immediate medical attention.

Eyes: If contact occurs, flush eyes immediately with ample water. If irritation develops, seek medical attention.

Skin: If contact occurs, wash skin immediately with water. If the product is hot, immediately immerse or flush the affected area with large amounts of cold water to dissipate heat. Cover affected area with clean cotton sheeting or gauze and obtain prompt medical attention. Do not make an attempt to remove material from skin or contaminated clothing as the damaged skin can be easily torn.

Ingestion: N/A – not expected route of exposure.

If symptoms persist consult a Doctor.

Section 5- Fire Fighting Measures
BIOSENS

Fire Fighting Procedures:

Wear self-contained positive-pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

Protective equipment: No special measures required.

Extinguishing Media:

Water spray, fog, foam, dry chemical or CO₂.

OSHA Flammability Classification: None

Flash Point/ Method: Not determined

Autoignition Temperature: > 350°C

Explosive Lower Limit(s): Not determined

Explosive Upper Limit(s): Not determined

Section 6- Accidental Release Measures
BIOSENS

Spill Release Procedures:

Allow molten material to solidify and scrape up. Collect material and place in disposal container. Follow relevant local, state, provincial and federal laws and regulations. Avoid contamination of lakes, streams, ponds, groundwater or soil.

Person-related safety precautions: Particular danger of slipping on leaked/spilled product.

Measures for environmental protection: No special measures required.

Measures for cleaning/collecting: Pick up mechanically.

Additional information: No dangerous substances are released.

Section 7- Handling and Storage
BIOSENS

Handling and Storage Precautions:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing vapors from heated material. Store in a cool, dry place.

Handling:

Information for safe handling:

Any deposit of dust which cannot be avoided must be regularly removed.

Extractors are required on all machines used for thermal processing or splinter removal processes.

Information about protection against explosions and fires:

Dust can combine with air to form an explosive mixture.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Section 8- Exposure Controls & Personal Protection
BIOSENS

Biosens does not contain any components considered to be health hazards under the OSHA Hazard Communication Standard in 29 C.F.R. §1910.1200 or under the WHMIS Controlled Product Regulations in Canada.

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment:

General protective and hygienic measures: Avoid skin contact with the liquefied material.

Breathing equipment: Not required.

Protection of hands: Protective gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality

and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Additional Exposure Limit Information:

Dust:

Particulates not otherwise classified:

<i>Ref.</i>	<i>Limit</i>	<i>Value</i>	
OSHA	TWA/TLV	10 mg/m ³	Inhalable particulate
OSHA	TWA/TLV	3 mg/m ³	Respirable particulate

Particulates not otherwise regulated:

<i>Ref.</i>	<i>Limit</i>	<i>Value</i>	
OSHA	TWA/PEL	15 mg/m ³	Total particulate
OSHA	TWA/PEL	5 mg/m ³	Respirable particulate

Ventilation: If use operations generate dust, fume or mist, use ventilation to control airborne exposure.

Respiratory Protection: In case of exposure to fumes in hot processing, use appropriate NIOSH-approved respiratory protective equipment.

Eye Protection: Wear safety glasses with side shields.

Skin Protection: Wear impermeable gloves.

Other Protective Equipment: A safety shower and eye wash fountain should be readily available. It is recommended that a hazard assessment in accordance with the OSHA Personal Protective Equipment (PPE) Standard in 29 C.F.R. §1910.132 be conducted before using this product in order to identify additional PPE requirements.

Section 9- Physical & chemical Properties
BIOSENS

Boiling Point: Not available
Melting Point: Not available
pH: Not available
Vapor Pressure: Not available
Vapor Density: Heavier than air (i.e., >1)
Specific Gravity: Not available
Evaporation Rate: Slower than Butyl Acetate
Solubility in Water: Negligible
Appearance: Granulate
Odor: Odorless
Color: According to product specification

Section 10- Stability & Reactivity Data
BIOSENS

Stability: Stable under normal storage conditions.
Hazardous Polymerization: Will not occur under normal conditions.
Conditions to Avoid: Decomposition temperature: > 350° C (662° F).
Incompatibility with Other Materials: No known incompatibility with other materials.
Hazardous Decomposition Products: No known hazardous decomposition products.

Section 11- Toxicological Information
BIOSENS

Acute toxicity:
Primary irritant effect:
on the skin: No irritant effect.
on the eye: No irritant effect.
Sensitization: No sensitizing effects known.
Additional toxicological information:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Section 12- Ecological Information
BIOSENS

Ecological Information:
General notes: Generally not hazardous for water

Section 13- Disposal Consideration
BIOSENS

Waste Disposal Methods: Incinerate. Follow all federal, state, and local regulations to avoid contamination.

Section 14- MSDS Transport Information
BIOSENS

DOT regulations:

Hazard class: -

Transport/Additional information: Not dangerous according to the above specifications.

Section 15- Regulatory Information
BIOSENS

Federal Regulatory Information:

OSHA: This product does not contain a hazardous chemical listed in the National Toxicology Program 10th Annual Report on Carcinogens.

Clean Air Act Section 112: This product does not contain components at or above the OSHA de minimus level or listed as Hazardous Air Pollutants. This product does not contain components at or above the OSHA de minimus level or listed as Extremely Hazardous Air Pollutants.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III /Emergency Planning and Community Right to Know Act (EPCRA)

Section 302: This product does not contain components listed as Extremely Hazardous Substances.

Section 311/312: Hazard Classifications: None

Section 313: This product does not contain components subject to reporting requirements.

Section 355: (Extremely Hazardous Substance):

State Regulatory Information:

Massachusetts: This product does not contain any substances listed on the Massachusetts Substance List.

California: Proposition 65: This product does not contain any substances known to the State of California to cause cancer or adverse reproductive effects.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Product related hazard informations:

The product is not subject to identification regulations according to directives on hazardous materials.

National regulations:

Water hazard class: Generally not hazardous for water.

Section 16- Other Information
BIOSENS

HMIS Ratings: (4 = Highest Hazard, 0 = Lowest Hazard, * = Chronic Health Hazard, N = No rating for powders)

Health: 1

Flammability: 0

Reactivity: 0

NFPA Ratings: (4 = Highest Hazard, 0 = Lowest Hazard, N = No rating for powders)

Health: 1

Flammability: 0

Reactivity: 0

NOTICE

All information, recommendations and suggestions appearing herein concerning the product are based upon data obtained from the manufacturer and/ or recognized technical sources; however, PERFLEX LTD makes no warranty, representation or guarantee as to the accuracy, sufficiency, or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his/her own use, handling and disposal of the product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by PERFLEX LTD. As to the effects of such use, PERFLEX LTD does not assume any liability arising out of use by others of the products referred to herein. The data in this Material Safety Data Sheet relate only to the specific material designated herein and does not relate to use in combination with any other material.
