

MATERIAL SAFETY DATA SHEET

Section 1: Product/Company Information

Product Name Bio-Fix SL

Product uses Natural Nitrogen Fixing product

Supplier/Company Parallax AG LLC

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Section 2: Chemical Composition

<u>Chemical Name</u> <u>CAS No.</u> <u>Content (%w/v)</u>

Paenibacillus durus Not Applicable 1x 10⁹ CFu/ml

Other ingredients -- Q. S.

Section 3: Hazardous Identification

Toxicological risk classification according to WHO: IV (Product that normally causes no harm).

Adverse health effects Avoid contact with eyes.

Skin dryness and irritation may occur.

Causes nausea, vomit, abdominal pain, diarrhea, and

drowsiness in case of ingestion.

Environmental Hazards May be harmful to aquatic organisms.

Symptoms of overexposure Inhalation of product may aggravate existing chronic

respiratory problems such as asthma, emphysema, or

bronchitis.

Skin contact may aggravate existing skin diseases.

Section 4: First Aid Measures

If ingested Induce vomiting by giving a cup of water or milk. Immediately seek

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medical advice.

Eye contact Immediately flush the contaminated eye with plenty of water for 15

minutes or until the product is removed. Seek medical attention, if

necessary.

Skin Contact Take off contaminated clothing and shoes. Rinse skin immediately with

plenty of cold water and soap. Wash contaminated clothing separately.

Seek medical attention, if necessary.

Move affected person to fresh air. If breathing is difficult give artificial

respiration. Seek medical attention, if necessary.

No specific antidote. Treat symptomatically.

Note to Physician

Inhalation

Section 5: Fire Fighting Measures

Water, foam, dry chemical powder or dry carbon dioxide. **Extinguishing Media**

Special Fire Fighting

Procedures

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use appropriate extinguishing media. Evacuate affected area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Cool nearby drums with water spray.

Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning.

Decomposition

Products

CO₂, NO, and HCl organic compounds such as aromatic compounds.

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Section 6: Accidental Release Measures

Personal precautions

Wear appropriate safety clothing and eye/face protection.

Do not wash into sewers or into any water body.

Environmental

precautions

Methods for cleaning Contain the spill at its source. Clean up spills immediately, observing

up the spills precautions outlined in Sections 7 and 8. Ventilate the area and wash

spill site after material pick up is complete. On soils, skim off the

upper contaminated layer and collect for disposal. Once all material is

cleaned up and placed in a disposal container, seal container and

arrange for disposition. Spillages or uncontrolled discharges into

watercourses must be alerted to the appropriate regulatory body.

Section 7: Handling and Storage

Handling

Keep out of reach of children and animals. Prevent eating, drinking,

tobacco use, and cosmetic application in areas where there is a

potential for exposure to the material. Avoid inhalation spray mist.

Wear full protective clothing and equipment.

After work, rinse gloves and remove protective equipment, and wash

hands thoroughly with soap and water after handling, and before

eating, tobacco use, drinking, or using the toilet. Wash contaminated

clothing separately. Keep containers closed when not in use.

Store unused product in original container only, out of reach of

children and animals. Keep out of direct sunlight. Store in an area that

is cool, away from sources of ignition and oxidising agents and strong

acids, away from food, feedstuffs, fertilizers, seed, and water sources.

Protect the product from direct contact with water.

Storage



Section 8: Exposure Control/Personal Protection

Engineering Controls Use only in well-ventilated area. Ensure work areas have ventilation,

containment, and procedures sufficient to maintain airborne levels

below the TLV. Warehouses, production area, parking lots and waste

holding facilities must have adequate containment to prevent

environmental contamination. Provide separate shower and eating

facilities.

Ingestion Do not eat, drink or apply cosmetics, where there is a potential for

exposure to the product.

Eyes protection Where eye contact is likely, use chemical splash goggles. Facilities

storing or utilizing this material should be equipped with an eyewash

facility and a safety shower.

Skin protection Chemical resistant gloves, coveralls, socks, apron and chemical

resistant foot coverings should always be used while handling the

product.

Respiratory protection Always use NIOSH/MSHA approved respiratory protection equipment

with a universal filter type including particle filter.

General Protection Avoid contact with eyes and skin. While handling the product, wear

cotton overalls buttoned to the neck and wrist and washable hat,

elbow-length PVC gloves and face shield. After use and before eating

drinking or smoking, wash hands, arms and face thoroughly with soap

and water. After each day's use, wash gloves, face shield and

contaminated clothing.

Section 9: Exposure Control/Personal Protection

Physical appearance Light yellow to brown liquid

Odour Slight specific



pH 5-8

Explosivity Non-explosive.

Relative density $1.01 \pm 0.02 \text{ g/ml}$

Section 10: Stability and Reactivity

Explosivity Non-explosive

Flammability Non-flammable.

Shelf life Stable for two years under normal conditions of storage and use.

Conditions to avoid Extreme temperature conditions.

Materials to be avoided Oxidizing agents, strong acids and bases.

Hazardous Combustion may result in the production of toxic gases such as

decomposition products CO₂, NO, and HCl organic compounds such as aromatic

compounds.

Section 11: Toxicological information

Oral Acute LD₅₀ (Rats) > 5 000 mg/kg in rats

Acute dermal LD₅₀ (Mice) > 5 000 mg/kg bw

Skin irritation Non-irritant

Eye irritation Non-irritant

Skin sensitization Non-sensitizing.

Section 12: Ecological information

Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.



Section 13: Disposal Consideration

Disposal

Do not re-use empty containers. Empty container retains product residue. Triple rinse or equivalent, empty container and dispose off dilution mixture as a hazardous waste if it cannot be disposed off by use according to label instructions. Dispose off empty containers in accordance with local regulations. Consult Provincial Environment Ministry for advice on waste disposal. Industrial/commercial waste may be handled at licensed facilities only. Waste shipments must be securely packaged and properly labeled.

Only licensed carriers may be used, and proper documents must accompany the shipment.

Section 14: Transport Information

DOT classification: Not a DOT controlled material (Unites States).

DOT Hazardous class: Non-regulated

IMO/IMDG class: Non-regulated (International Maritime Organization).

UN number: Not assigned (not a dangerous good) **Identification:** Paenibacillus durus 1x 10⁹ CFu/ml

Special Provisions for Transport: Not applicable (Not required).

Section 15: Regulatory Information

Not a regulated product by various regulatory authorities globally.

Section 16: Other Information

The information provided in this safety data sheet is believed to be accurate and reliable. The information is offered only as a guide to the handling of this specific material, but uses of this product may vary and situation unforeseen by Parallax AG LLC, USA may exist. No warranty of any kind is given/ implied and Parallax AG LLC, USA will not be reliable for any damages, loses, injuries or



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