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Natural Vegetable dyes exporters

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Forest Green Powder

Material Safety Data Sheet

Section 1: Product Identification and its name

- 1). Trade Name: Forest Green
- 2). Botanical Name: Curcuma Longa + Punica Grantum + Indigo Tinctoria
- 3). English Name: Turmaric + Pomegranate+ Natural Indigo
- 4). Indian Name: Haldi + Annar + Neel

Section 2: Composition and Information on Ingredients

Forest Green is a combination of Curcuma Longa, Punica Granatum and Natural Indigo fermented in acidic medium.

Properties Turmaric: Rhizome-stimulant, antirheumatic, anthelmintic, carminative, blood purifier, antiperiodic, in sprains, conjunctivitis.

Biological Act Turmaric: anti-inflammatory, rhizome-antiparasitic, spasmolytic, antiparasitic for skin infection, antibacterial.

Chemical Constituent Turmaric: sabinete, myrcene, limonene, perilly1 alcohol, turmerone, eugenol methy1 ether.

Properties Pomegranate: Astringent, Antidiarrhoeal.

Biological Act Pomegranate: Pericarp-possesses antifertility effect, rind-antibacterial.

Chemical Composition: Fruit rind give an ellagitannin named granatin B, punicalin & ellagic acid.

Properties Natural Indigo: Anti-inflammatory, anti-asthamatic, leucoderma butns, ulcer, skin diseases, antidote for snake bite, in hepatitis.

Biological Act Natural Indigo: Alcoholic, extract-useful in liver damage, CNS depressant.

Other information: This product is a combination of Turmaric , Pomegranate and Natural Indigo which has been fermented in acidic medium. Turmaric is cultivated throughout India and Natural Indigo is cultivated in southern India. Termaric is used in every Indian kitchen along with other spices. Turmaric has medicinal value in Ayurvedic medicinal therapy.

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area, avoid storage in damp conditions.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Natural Indigo is fermented in acidic medium. Turmeric, pomegranate and are crushed and brought to powder state so that whenever it is used to get colour, coloured particles becomes easily soluble in water.

Odor: Foul

Taste: Not available.

Molecular Weight: Not available.

Color: Green

Ph: pH-4 with 10% water solubility

Boiling Point: Not available.

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Solubility: Moderately soluble in water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Not available.

Special Remarks on Reactivity: Not data in incompatibility

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

Cancer Information: There is no information available (no data). This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Eye: Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin: May cause skin irritation. Symptoms may include redness, burning, and swelling of skin.

Swallowing: Swallowing this material may be harmful.

Inhalation: dust may cause respiratory tract irritation. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Target Organ effects: no data

Other: May cause mucous membrane irritation. Although it may cause respiratory tract irritation.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: No effect.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: Not Hazardous

Section 14: Transport Information

Transport: Normal conditions apply.

Special Provisions for Transport: Not needed.

Section 15: Other Regulatory Information

Federal and State Regulations: No products were found.

Other Regulations: Not available.

Other Classifications:

DSCL (EEC): This product is not classified according to the EU regulations.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves, Lab coat, Safety glasses.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Section 16: Other Information

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The information above is believed to be accurate and represents the best information currently available to us. However, We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Sam Vegetable Colours (P) Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Sam Vegetable Colours (P) Ltd. has been advised of the possibility of such damages.