1 Identification

- Product identifier
  - Trade name: Pure Pokeweed Mitogen (Phytolacca Americana)
  - Article number: 780341
  - Molecular Formula N/A
  - Application of the substance / the mixture For Research Use Only

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: MP Biomedicals, LLC
    29525 Fountain Parkway
    Solon, OH 44139
    United States
    www.mpbio.com

  - Information department: Quality Control Department
  - Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS08 Health hazard
    Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

  - GHS07
    Skin Sens. 1 H317 May cause an allergic skin reaction.

- Label elements
  - GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms

  - GHS08

- Signal word Danger

- Hazard-determining components of labeling:
  Pokeweed Mitogen (Phytolacca Americana)

- Hazard statements
  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  May cause an allergic skin reaction.

- Precautionary statements
  Avoid breathing dust/fume/gas/mist/vapors/spray
  Contaminated work clothing must not be allowed out of the workplace.
  Wear protective gloves.
  [In case of inadequate ventilation] wear respiratory protection.

(Contd. on page 2)
Trade name: Pure Pokeweed Mitogen (Phytolacca Americana)

If on skin: Wash with plenty of water.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
If experiencing respiratory symptoms: Call a poison center/doctor.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

- NFPA ratings (scale 0 - 4)
  - Health = 1
  - Fire = 0
  - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - HEALTH Health = *1
  - FIRE Fire = 0
  - REACTIVITY Reactivity = 0

Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
  Pokeweed Mitogen (Phytolacca Americana)

4 First-aid measures

- Description of first aid measures
- After inhalation:
  Supply fresh air and to be sure call for a doctor.
  If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.
- After skin contact: Wash off with soap and plenty of water. Consult a Doctor.
- After eye contact: Flush eyes with running water as a precaution.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor
  - Most important symptoms and effects, both acute and delayed No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
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acc. to OSHA HCS

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6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
  For personal protection see section 8.
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  Pick up mechanically, dispose contaminated material as waste according to Section 13.
  Ensure adequate ventilation.
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
  - PAC-1:
    Substance is not listed.
  - PAC-2:
    Substance is not listed.
  - PAC-3:
    Substance is not listed.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes.
  - Information about protection against explosions and fires: No special requirements.
  - Conditions for safe storage, including any incompatibilities
  - Storage: 2-8°C
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Further information about storage conditions:
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see Section 7.
- Control parameters
  - Components with limit values that require monitoring at the workplace: Not required.
  - Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment:
  - General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

- **Breathing equipment:**
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**
  - **Protective gloves**
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

  - **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:** Not required.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Powder
      - **Color:** According to product specification
      - **Odor:** Indeterminate
      - **Odor threshold:** Not determined.
    - **pH-value:** Not applicable.
  - **Change in condition**
    - Boiling point/Boiling range: Undetermined.
  - **Flash point:** Not applicable.
  - **Flammability (solid, gaseous):** Product is not flammable.
  - **Decomposition temperature:** Not determined.
  - **Auto igniting:** Not determined.
  - **Danger of explosion:** See section 10.
  - **Explosion limits:**
    - Lower: Not Applicable
    - Upper: Not Applicable
  - **Vapor pressure:** Not applicable.
  - **Density:** Not Applicable
  - **Relative density:** Not determined.
  - **Vapor density:** Not applicable.
  - **Evaporation rate:** Not applicable.
Trade name: Pure Pokeweed Mitogen (Phytolacca Americana)

- Solubility in / Miscibility with
  - Water: Not determined.
  - Insoluble.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
  - VOC content: 0.00 %
  - Solids content: 100.0 %
  - Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability: No decomposition if used according to specifications.
- Thermal decomposition / conditions to be avoided: No dangerous reactions known.
- Possibility of hazardous reactions: No dangerous decomposition products known.
- Conditions to avoid: Avoid contact with acids. Contact liberates a toxic gas.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No further relevant information available.

11 Toxicological information

- Information on toxicological effects: Sensitization possible through inhalation.
  - Sensitization possible through skin contact.
- Acute toxicity:
  - Primary irritant effect: No irritant effect.
  - on the skin: No irritant effect.
  - on the eye: Irritant and potentially harmful
- Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact.
- Additional toxicological information:
- Carcinogenic categories:
  - IARC (International Agency for Research on Cancer):
    Substance is not listed.
  - NTP (National Toxicology Program):
    Substance is not listed.
  - OSHA-Ca (Occupational Safety & Health Administration):
    Substance is not listed.

12 Ecological information

- Toxicity: No further relevant information available.
- Aquatic toxicity: No further relevant information available.
Trade name: Pure Pokeweed Mitogen (Phytolacca Americana)

- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Can not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
  - Recommendation: Discard must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA: Not regulated
- UN proper shipping name
  - DOT, ADR, IMDG, IATA: Not regulated
- Transport hazard class(es)
  - DOT, ADR, IMDG, IATA: Not regulated
- Class
- Packing group
  - DOT, ADR, IMDG, IATA: Not regulated
- Environmental hazards:
  - Not applicable.
- Special precautions for user
  - Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.
- UN "Model Regulation":
  - Not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      Substance is not listed.
Trade name: Pure Pokeweed Mitogen (Phytolacca Americana)

- **Section 313 (Specific toxic chemical listings):**
  Substance is not listed.

- **TSCA (Toxic Substances Control Act):**
  Substance is not listed.

- **Hazardous Air Pollutants**
  Substance is not listed.

- **Proposition 65**
  - **Chemicals known to cause cancer:**
    Substance is not listed.
  - **Chemicals known to cause reproductive toxicity for females:**
    Substance is not listed.
  - **Chemicals known to cause reproductive toxicity for males:**
    Substance is not listed.
  - **Chemicals known to cause developmental toxicity:**
    Substance is not listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**
  Substance is not listed.

- **TLV (Threshold Limit Value established by ACGIH)**
  Substance is not listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  Substance is not listed.

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - **Signal word** Danger
  - **Hazard-determining components of labeling:**Pokeweed Mitogen (Phytolacca Americana)
  - **Hazard statements**
    May cause allergy or asthma symptoms or breathing difficulties if inhaled.
    May cause an allergic skin reaction.
  - **Precautionary statements**
    Avoid breathing dust/fume/gas/mist/vapors/spray
    Contaminated work clothing must not be allowed out of the workplace.
    Wear protective gloves.
    [In case of inadequate ventilation] wear respiratory protection.
    If on skin: Wash with plenty of water.
    If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
    If skin irritation or rash occurs: Get medical advice/attention.
    Specific treatment (see on this label).
    If experiencing respiratory symptoms: Call a poison center/doctor.
    Wash contaminated clothing before reuse.
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Trade name: Pure Pokeweed Mitogen (Phytolacca Americana)

Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Department issuing SDS:** Quality Control Dept.
• **Date of preparation / last revision** 09/26/2019 / -
• **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Resp. Sens. 1: Respiratory sensitisation – Category 1
  - Skin Sens. 1: Skin sensitisation – Category 1

US