Material Safety Data Sheet
Phlamoon-1090A
Issued date: Dec, 2018

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Section 1: Chemical Product Identification
A. Product name: Phlamoon-1090A (Halogen free flame retardant)
B. Chemical name: Melamine polyphosphate based mixture

Section 2: Hazards Identification
Physical/chemical hazards: Not applicable.
Environmental hazards: Not applicable.
Effect(s) of (over)exposure: Irritating to eyes and respiratory tract at exposure above Threshold Limit Value.
Symptom(s) of (over)exposure
  Inhalation: Sore throat, coughing.
  Ingestion: > 10 g may result in abdominal pain.
  Skin contact: Redness.
  Eye contact: Redness, pain.

Section 3: Composition, Information on Ingredients
- Chemical name: Melamine polyphosphate based mixture
- CAS No and CONTENT(%)

<table>
<thead>
<tr>
<th>CONTENT(%)</th>
<th>Percentage(%)</th>
<th>CAS No.</th>
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<tbody>
<tr>
<td>Melamine polyphosphate</td>
<td>55~60</td>
<td>218768<del>84</del>4</td>
</tr>
<tr>
<td>Piperazine pyrophosphate</td>
<td>40~55</td>
<td>66034-17-1</td>
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- CHEMICAL FAMILY: Phosphate salt

Section 4: The First Aid Measures
A. EYE CONTACT:
  - Immediately wash, also inside the eye lids, thoroughly with water or saline solution
  - Consult to your doctor. B.
B. SKIN CONTACT:
  - Immediately remove the work uniform and shoes contaminated
  - Wash thoroughly with soap or neutral detergent until the chemicals are completely removed (Minimum of 15~20 min.)
  - Consult to your doctor.
C. INHALATION:
  - Move away from the exposure area. When needed, use a lifesaving device or similar
device for the artificial respiration.
- Consult to your doctor. D.

D. INGESTION:
- Lower the head down below the hip level to prevent the airway of the neck from choking, if vomiting occurs.
- Consult to your doctor if needed.

Section 5: Fire Fighting Measures

A. Ignition point: >300°C
B. Classification and regulations on fire extinguishing method:
   - Nothing officially confirmed yet. C.

Extinguishing Media:
- Powder-formed agent, carbon dioxide, water, general foam
- Large fires: use extinguishing media or splash with water. D.

Extinguishing method and device:
- If possible, move container from the fire.
- Apply the high pressured spout of water to the area exposed that, not to be scattered.
- Use proper extinguishing agent for the fire.
- Avoid the inhalation of dust, burnt materials, and gas when fire.
- Pose and face the direction of the wind, and move away from low areas.

Section 6: Accident release measures

A. Essential measures for protecting human body:
   - Referring to 8, wear appropriate private clothing to protect yourself.
B. Essential measures for protecting the environment:
   - Do not discharge materials into the sewerage.

C. Purification or disposal:
   - Prepare appropriate containers for disposal.
   - Away from the waterworks and the sewerage.
   - Do not allow anyone near except persons concerned and petrol the dangerous area.

Section 7: Handling and Storage

A. Handling:
   - Do not inhale the dust.
   - Avoid a contact with eyes, skin, and clothing.
   - Avoid dust
   - Wash thoroughly after handling
   - Handle under good ventilation

B. Storage:
   - Keep away from the heat and flame
   - Store in a place cool and dry
   - Seal up containers well
   - Handle and store subject to the existing law and regulations.
   - Separate materials not allowed to be mixed.

Section 8: contact control / personal protection

A. Management:
- Install machinery or proper devices where potential explosion danger exists.
- Check whether they meet the standards subjected.

B. RESPIRATOR:
- Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.
- Any dust, mist, and fume respirator.
- Any air-purifying respirator with a high–efficiency particulate filter.
- Any powered, air-purifying respirator with a dust, mist, and fume filter.
- Any powered, air-purifying respirator with a high–efficiency particulate filter.
- For Unknown Concentrations or Immediately Dangerous to Life or Health –
- Any supplied–air respirator with full face piece and operated in a pressure–demand or other positive–pressure mode in combination with a separate escape supply.
- Any self–contained breathing apparatus with a full face piece.

C. Eye protection:
- Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

D. Hand protection:
- Wear appropriate chemical resistant gloves.

E. Body protection:
- Wear appropriate chemical resistant clothing.

F. Hygiene caution:
- Not officially set.

Section 9: physicochemical characteristics

A. Appearance: Crystalline powder.
B. Odor: Odorless
C. pH: 3.5–5.5
D. Solubility: <100mg/l (22°C)
E. Boiling point/ range: not applicable
F. Melting point/ range: not applicable
G. Volatility: not applicable
H. Oxidative: no data available
I. Vapor pressure: not applicable
J. Specific gravity(Water=1): No data available
K. Odor threshold: None
L. Vapor density: Not applicable
M. Viscosity: No data available
N. Molecular weight: Complexion of organic and inorganic body
O. Molecular formular: Complexion of organic and inorganic body

Section 10: Stability and Reaction Activity

A. Chemical stability: Stable under normal storage condition.
B. CONDITIONS TO AVOID: Avoid temperature above 350°C.
C. Potentially Harmful material occurrence when reaction: Will not occur.

Section 11: toxicology information

A. Acute oral toxicity: LD<sub>50</sub>Fat: >2000mg/kg
B. Acute inhalation toxicity: No data available
C. Subacute toxicity: No data available
D. Chronic toxicity: No data available
E. Mutagenic influence: No data available
F. New generation influence (reproductive toxicity): No data available
G. Cancerogenic influence:
   - Industrial safety and health regulation: not stated
   - Occupational Safety and Health Administration (OSHA): not stated
   - National Toxicology Program (NTP): not stated
   - International Agency for Research on Cancer (IARC): not stated

Section 12: Ecological Information

A. Aquatic and ecological toxicity: No data available
B. Soil migration: No data available
C. Remainability and resolvability: No data available
D. Accumulation Potentiality inside the body of organisms: No data available

Section 13: Waste disposal

A. Current status of management regulation on waste disposal: subjected to the applicable laws
B. Disposal procedures: No data available
C. Disposal cautions: No data available

Section 14: Transport Information

A. Shipping safety standard on hazardous material transportation and regulation on storage: No classification assigned.
B. Transport Cautions:
C. Other foreign-related safety standard on hazardous material transportation and regulation on storage: No classification assigned.

Section 15: Regulatory Information

A. Regulations on the industrial safety and health standard: N
B. Regulations on hazardous chemicals management and others: N C.
Other foreign regulations:
○ TSCA INVENTORY STATUS: N
○ CERCLA SECTION 103 (40CFR302.4): N
○ SARA SECTION 302 (40CFR355.30): N
○ SARA SECTION 304 (40CFR355.40): N
○ SARA SECTION 313 (40CFR372.65): N
○ SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):
   - ACUTE: N
   - CHRONIC: N
   - FIRE: N
   - REACTIVE: N
   - SUDDEN RELEASE: N
○ California Proposition 65: N

Section 16: Other Information

CREATION DATE: Jan 05 2016