SAFETY DATA SHEET

Section 1. Identification

Product identifier : LEWATIT MonoPlus TP 260
Material Number : 06275052
Chemical family : copolymer
Identified uses : Ion Exchange Resin
Supplier/Manufacturer : LANXESS Corporation
Sybron Chemicals, Inc
200 Birmingham Road
Birmingham, NJ 08011
USA

In case of emergency : For information: US/Canada (800) LANXESS
                                International +1 412 809 1000
                                Chemtrec (800) 424-9300
                                International (703) 527-3887
                                Lanxess Emergency Phone (800) 410-3063.

Section 2. Hazards identification

HAZCOM Standard Status : This material is considered hazardous by the OSHA Hazard Communication Standard
Physical state : Solid.
Color : Beige. opaque
Classification of the substance or mixture : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
Hazard pictograms : ![Exclamation Mark]

Signal word : Warning
Hazard statements : Causes serious eye irritation.
Hazard Not Otherwise Classified (HNOC) : None known.
Precautionary statements
Prevention : Wear eye/face protection. Wash hands thoroughly after handling.
Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage : Not applicable.
Disposal : Not applicable.
Supplemental label elements : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene-divinylbenzene-copolymer with Phosphonic Acid anchor groups in Sodium form</td>
<td>38 - 42%</td>
<td>114060-55-8</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.
Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of first aid measures

Eye contact: 
Get medical attention. In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.

Inhalation: 
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: 
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: 
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:
- pain or irritation
- watering
- redness

Inhalation: No specific data.

Skin contact: Not applicable

Ingestion: Not applicable.

Potential chronic health effects

No known significant effects or critical hazards.

Notes to physician: Treat symptomatically. No specific treatment.

Protection of first-aiders: No special measures required.

See toxicological information (Section 11)
Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: No specific fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials:
- Carbon dioxide
- Carbon monoxide
- Metal oxide/oxides

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Hazard of slipping on spilled product.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up: Move containers from spill area. Approach release from upwind. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage: Store between the following temperatures: -20 to 40°C (-4 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container. It is recommended to store ion exchange resins at temperatures above the freezing point of water. If the resin should become frozen, the resin should not be mechanically handled and should be left to thaw out gradually at ambient temperature. It must be completely thawed before handling or use. No attempt should be made to accelerate the thawing process.
Section 8. Exposure controls/personal protection

**Occupational exposure limits**
No exposure limit value known.

**Appropriate engineering controls**
- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal protection**

**Hygiene measures**
- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection**
- Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Skin protection**
- Wear suitable protective clothing and gloves. Suitable protective footwear.

**Eye/face protection**
- Safety glasses with side-shields or goggles.

**Medical Surveillance**
- Not available.

Section 9. Physical and chemical properties

**Physical state**
- Solid. [beads]

**Color**
- Beige. opaque

**Odor**
- Odorless.

**Odor threshold**
- Not available.

**pH**
- 7 [Conc. (% w/w): 10%]

**Boiling point**
- Not available.

**Melting point**
- Not available.

**Flash point**
- Not available.

**Evaporation rate**
- Not available.

**Vapor pressure**
- Not available.

**Density**
- 1.2 g/cm³

**Specific gravity (Relative density)**
- Not available.

**Bulk density**
- 700 to 800 kg/m³

**Solubility**
- Insoluble in the following materials: cold water

**Partition coefficient: n-octanol/water**
- Not available.

**Vapor density**
- Not available.

**Viscosity**
- Not available.

**Ignition temperature**
- >250°C

**Auto-ignition temperature**
- Not available.

**Decomposition temperature**
- Not available.

Section 10. Stability and reactivity

**Reactivity**
- No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**
- The product is stable.

**Possibility of hazardous reactions**
- Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**
- No specific data.

**Incompatible materials**
- Strong oxidants, e.g. nitric acid, can cause violent reactions if they come into contact with ion exchange resins.
**Section 10. Stability and reactivity**

**Hazardous decomposition products**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicological information**

**Information on the likely routes of exposure**: Dermal contact. Eye contact.

**Potential acute health effects**

**Eye contact**: Causes serious eye irritation.

**Inhalation**: No known significant effects or critical hazards.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion**: No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact**: Adverse symptoms may include the following:
- pain or irritation
- watering
- redness

**Inhalation**: No specific data.

**Skin contact**: Not applicable

**Ingestion**: Not applicable.

**Potential chronic health effects**

**Short term exposure**

**Potential immediate effects**: Not available.

**Long term exposure**

**Potential delayed effects**: Not available.

**General**: No known significant effects or critical hazards.

**Carcinogenicity**: No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity**: No known significant effects or critical hazards.

**Developmental effects**: No known significant effects or critical hazards.

**Fertility effects**: No known significant effects or critical hazards.

**Information on toxicological effects**

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lewatit TP 260</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Irritation/Corrosion**

**Conclusion/Summary**

**Skin**: Non-irritating

**Eyes**: Irritant.

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>CAS #</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
</table>

**Acute toxicity estimates**

**Route**: Not available.

**ATE value (Acute Toxicity Estimates)**
Section 12. Ecological information

**Toxicity**
Not available.

**Conclusion/Summary**
Not available.

**Persistence and degradability**
Not available.

**Bioaccumulative potential**
Not available.

**Mobility in soil**

**Soil/water partition coefficient (K_{OC})**
Not available.

**Other adverse effects**
No known significant effects or critical hazards.

Section 13. Disposal considerations

**Disposal methods**
The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws. Observe label precautions.

**RCRA classification**
If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Section 14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>IATA-DGR Class</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

PG*: Packing group

RQ: 0 lbs

Section 15. Regulatory information

**SARA 311/312**
Immediate (acute) health hazard

**SARA Title III Section 302 Extremely Hazardous Substances**
None

**SARA Title III Section 313 Toxic Chemicals**
None

**US EPA CERCLA Hazardous Substances**
None

**State regulations**
Section 15. Regulatory information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>State Code</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td></td>
<td>59 - 65%</td>
</tr>
<tr>
<td>Styrene-divinylbenzene-copolymer with Phosphonic Acid</td>
<td>114060-55-8</td>
<td></td>
<td>39 - 45%</td>
</tr>
<tr>
<td>Sodium form</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Massachusetts Substances: MA - S</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Massachusetts Extraordinary Hazardous Substances: MA - HS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Jersey Hazardous Substances: NJ - HS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pennsylvania RTK Hazardous Substances: PA - RTK HS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pennsylvania Special Hazardous Substances: PA - Special HS</td>
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</tr>
</tbody>
</table>

California Prop. 65
To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. Toxic Substances Control Act: Listed on the TSCA Inventory.

Section 16. Other information

Hazardous Material Information System: 
- Health: 2
- Flammability: 1
- Physical hazards: 1

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
*Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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

LANXESS’ method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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Date of issue: 05-05-2015
Date of previous issue: 10-30-2013
Version: 2

Indicates information that has changed from previously issued version.
Section 16. Other information

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