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SAFETY DATA SHEET

LMPS 201239

Section 1. Identification GHS product identifier LMPS 201239 : Chemical name : Mixture **CAS number** : Mixture CC10201239 Other means of identification : **Product type** : solid Relevant identified uses of the substance or mixture and uses advised against **Product use** Industrial applications. Plastics. : POLYONE CORPORATION **Supplier's details** : 33587 Walker Road, Avon Lake, OH 44012 1 (440) 930-1000 or 1 (866) POLYONE **Emergency telephone number** CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, (with hours of operation) exposure or accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

| OSHA/HCS status | : | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product. |
|--|---|--|
| Classification of the substance or mixture | : | Not classified. |
| Hazard statements | : | No known significant effects or critical hazards. |



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Precautionary statements

| General | : | Not applicable. |
|----------------------------------|---|-----------------|
| Prevention | : | Not applicable. |
| Response | : | Not applicable. |
| Storage | : | Not applicable. |
| Disposal | : | Not applicable. |
| Supplemental label elements | : | None known. |
| Hazards not otherwise classified | : | None known. |

Section 3. Composition/information on ingredients

| Substance/mixture | : | Mixture |
|-------------------------------|---|------------|
| Chemical name | : | Mixture |
| Other means of identification | : | CC10201239 |

CAS number/other identifiers

| Ingredient name | % | CAS number |
|---------------------------|----------|------------|
| Styrene-Butadiene polymer | 60 - 100 | 9003-55-8 |
| | | |
| | | |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | : | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
|--------------|---|---|
| Inhalation | : | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Skin contact | : | Flush contaminated skin with plenty of water. Remove contaminated |

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| Ingestion | : | clothing and shoes. Get medical attention if symptoms occur. 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. Get medical attention if symptoms occur. |
| Most important symptoms/effects, a | cute a | |
| Potential acute health effects | | |
| Eye contact Inhalation Skin contact Ingestion | :: | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Over-exposure signs/symptoms | | |
| Eye contact Inhalation Skin contact | : | No specific data. No specific data. No specific data. |
| Ingestion | : | No specific data. |
| Indication of immediate medical at | tentio | on and special treatment needed, if necessary |
| Notes to physician | : | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : | No specific treatment. |
| Protection of first-aiders | : | No action shall be taken involving any personal risk or without suitable training. |
| See toxicological information (Section | on 11 | l) |
| Section 5. Fire-fightin | g n | neasures |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 8 | |

Extinguishing media

| Suitable extinguishing media Unsuitable extinguishing media | : | In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known. |
|--|---|---|
| Specific hazards arising from the chemical | : | No specific fire or explosion hazard. |
| Hazardous thermal | : | Decomposition products may include the following materials: |
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| decomposition products | | phosphorus oxides 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

| For non-emergency personnel For emergency responders | : | 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. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
|---|------|---|
| 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 containme | nt a | nd cleaning up |
| Small spill Large spill | : | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Move containers from spill area. Prevent entry into sewers, water |
| | | courses, basements or confined areas. Vacuum or sweep up material and place in a designated, 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. |

Section 7. Handling and storage

Precautions for safe handling

| Protective measures | : | Put on appropriate personal protective equipment (see Section 8). |
|--------------------------------|---|---|
| Advice on general occupational | : | Eating, drinking and smoking should be prohibited in areas where this |



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| hygiene | material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage, : including any incompatibilities | 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. |

Section 8. Exposure controls/personal protection

Control parameters

| Occupational exposure limits | | |
|---|---|--|
| None. Appropriate engineering controls | : | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Environmental exposure controls | : | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
| Individual protection measures | | |
| 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. |
| Eye/face protection | : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |

Skin protection



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| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
|------------------------|---|
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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. |

Section 9. Physical and chemical properties

Appearance

| Physical state | solid [Pellets.] | |
|---------------------------|-----------------------------|---|
| Color | : NO PIGMENT | |
| Odor | : Faint odor. | |
| Odor threshold | : Not available. | |
| рН | : Not available. | |
| Melting point | : Not available. | |
| Boiling point | : Not available. | |
| Flash point | : Not available. | |
| Burning time | : Not available. | |
| Burning rate | : Not available. | |
| Evaporation rate | : Not available. | |
| Flammability (solid, gas) | : Not available. | |
| Lower and upper explosive | : Lower: Not available | • |
| (flammable) limits | Upper: Not available | |
| Vapor pressure | : Not available. | |
| Vapor density | : Not available. | |
| Relative density | : Not available. | |
| Solubility | : Not available. | |
| Solubility in water | : insoluble in water. | |
| Partition coefficient: n- | : Not available. | |
| octanol/water | | |
| Auto-ignition temperature | : Not available. | |
| Decomposition temperature | : Not available. | |
| SADT | : Not available. | |

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Viscosity

Dynamic: Not available. **Kinematic:** Not available.

Section 10. Stability and reactivity

:

| Reactivity | : | No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|---|--|
| Chemical stability | : | Stable under recommended storage and handling conditions (see Section 7). |
| Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : | Keep away from extreme heat and oxidizing agents. |
| Incompatible materials | : | Keep away from strong acids. Oxidizer. |
| Hazardous decomposition products | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced.Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Conclusion/Summary : Mixture.Not fully tested.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---------------------------|-------------|-----------------|------------|----------|-------------|
| Styrene-Butadiene polymer | Eyes - Mild | Rabbit | | 24 hrs | - |
| | irritant | | | | |
| Conclusion/Summary | | | | | |
| Skin | : M | lixture.Not ful | ly tested. | | |
| Eyes | : M | ixture.Not ful | ly tested. | | |
| Respiratory | : M | ixture.Not ful | ly tested. | | |
| Sensitization | | | | | |
| Conclusion/Summary | | | | | |
| Skin | : M | lixture.Not ful | ly tested. | | |
| | | 7/14 | | | |



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| | | | |
| Respiratory | : | Mixture.Not fully tested. | |
| Mutagenicity | | | |
| Conclusion/Summary | : | Mixture.Not fully tested. | |
| Carcinogenicity | | | |
| Conclusion/Summary <u>Classification</u> | : | Mixture.Not fully tested. | |
| Product/ingredient name OSH | A | IARC | NTP |
| Styrene-Butadiene polymer | · | 3 | |
| <u>Reproductive toxicity</u> Conclusion/Summary | : | Mixture.Not fully tested. | |
| Teratogenicity | | | |
| Conclusion/Summary | : | Mixture.Not fully tested. | |
| Specific target organ toxicity (sing Not available. | <u>le exp</u> | <u>oosure)</u> | |
| Specific target organ toxicity (repo Not available. | eated | <u>exposure)</u> | |
| Aspiration hazard Not available. | | | |
| Information on the likely routes of exposure | : | Not available. | |
| Potential acute health effects | | | |
| Eye contact Inhalation Skin contact Ingestion | : | No known significant effects or critic No known significant effects or critic No known significant effects or critic No known significant effects or critic | cal hazards. cal hazards. |
| Symptoms related to the physical, | chemi | cal and toxicological characteristics | |
| Eye contact | : | No specific data. | |
| Inhalation | : | No specific data. | |
| Skin contact | • | No specific data. | |
| SKIII CUIITACI | • | no specific uata. | |

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| Ingestion | : | No specific data. |
|---|---|--|
| Delayed and immediate effects and | l also c | chronic effects from short and long term exposure |
| Short term exposure | | |
| Potential immediate effects Potential delayed effects | : | Not available. Not available. |
| Long term exposure | | |
| Potential immediate effects Potential delayed effects | : | Not available. Not available. |
| Potential chronic health effects | | |
| Conclusion/Summary | : | Mixture.Not fully tested. |
| General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects <u>Numerical measures of toxicity</u> | : | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Acute toxicity estimates | | |
| Not available. | | |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---------------------------|-------------------------------------|---------------------------------|--------------------------|
| LMPS 201239 | | | |
| Remarks - Acute - Aquatic | Chemicals are not readily av | ailable as they are bound wi | thin the polymer matrix. |
| invertebrates.: | | | |
| Conclusion/Summary | : Chemicals are r polymer matrix | not readily available as they . | are bound within the |



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| Persistence and degradability | | |
|--|---|--|
| Conclusion/Summary | : | Chemicals are not readily available as they are bound within the polymer matrix. |
| Conclusion/Summary | : | Chemicals are not readily available as they are bound within the polymer matrix. |
| Bioaccumulative potential <u>Mobility in soil</u> | | |
| Soil/water partition coefficient (KOC) | : | 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. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and |
|------------------|---|--|
| | | contact with soil, waterways, drains and sewers. |

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

| U.S. DOT Classification | : | Not regulated for transportation. |
|-------------------------|---|---------------------------------------|
| ICAO/IATA | : | Consult mode specific transport rules |
| IMO/IMDG (maritime) | : | Consult mode specific transport rules |

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Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

Section 15. Regulatory information

| U.S. Federal regulations | : | United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Copper hydroxide phosphate (Cu2(OH)(PO4)) |
|--|---|--|
| | | United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed |
| Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I | : | Not listed |
| | | |



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| Substances | | |
|------------------------------------|---|------------|
| Clean Air Act Section 602 Class II | : | Not listed |
| Substances | | |
| DEA List I Chemicals (Precursor | : | Not listed |
| Chemicals) | | |
| DEA List II Chemicals (Essential | : | Not listed |
| Chemicals) | | |

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

<u>SARA 311/312</u>

Classification

Not applicable.

:

Composition/information on ingredients

| Name | % | Classification |
|---------------------------|----------|----------------|
| Styrene-Butadiene polymer | 60 - 100 | АН |

SARA 313

| | Product name | CAS number | % |
|-----------------------|----------------------------|------------|-------|
| Form R - Reporting | Copper hydroxide phosphate | 12158-74-6 | 5 - 7 |
| requirements | (Cu2(OH)(PO4)) | | |
| Supplier notification | Copper hydroxide phosphate | 12158-74-6 | 5 - 7 |
| | (Cu2(OH)(PO4)) | | |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

| State regulations | | |
|-------------------|---|---|
| Massachusetts | : | None of the components are listed. |
| New York | : | None of the components are listed. |
| New Jersey | : | The following components are listed: |
| | | Copper hydroxide phosphate (Cu2(OH)(PO4)) |
| Pennsylvania | : | The following components are listed: |
| | | Copper hydroxide phosphate (Cu2(OH)(PO4)) |

California Prop. 65

This PolyOne product does not contain any chemical known to the State of California to cause cancer, or birth defects or other reproductive harm, in concentrations that require a warning notice under California's Proposition 65. This statement relies in part on information provided by the buyer of this PolyOne product. PolyOne does not control or have complete knowledge of the end uses to which that buyer or any other entity in the chain of



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distribution and marketing may put this PolyOne product. Therefore, the buyer of this PolyOne product, each entity that uses this PolyOne product in formulating another product, and each entity in the chain of distribution and marketing of any product that includes the material in this PolyOne product must make its own decision as to giving a Proposition 65 warning.
 United States inventory (TSCA 8b) : All components are listed or exempted.
 Canada inventory : At least one component is not listed in DSL but all such components

are listed in NDSL.

International regulations

| International lists | : | Australia inventory (AICS): Not determined. Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined. EINECS: All components are listed or exempted. Japan inventory: Not determined. China inventory (IECSC): All components are listed or exempted. Korea inventory: All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. | |
|------------------------------------|---|--|--|
| Chemical Weapons Convention | : | Not listed | |
| List Schedule I Chemicals | | | |
| Chemical Weapons Convention | : | Not listed | |
| List Schedule II Chemicals | | | |
| Chemical Weapons Convention | : | Not listed | |
| List Schedule III Chemicals | | | |

Section 16. Other information

| History | | |
|--------------------------------|---|---|
| Date of printing | : | 07/17/2014 |
| Date of issue/Date of revision | : | 07/01/2014 |
| Date of previous issue | : | 00/00/0000 |
| Version | : | 1.0 |
| Key to abbreviations | : | ATE = Acute Toxicity Estimate |
| • | | BCF = Bioconcentration Factor |
| | | GHS = Globally Harmonized System of Classification and Labelling of |
| | | Chemicals |
| | | IATA = International Air Transport Association |
| | | IBC = Intermediate Bulk Container |
| | | IMDG = International Maritime Dangerous Goods |
| | | LogPow = logarithm of the octanol/water partition coefficient |
| | | MARPOL $73/78$ = International Convention for the Prevention of Pollution |
| | | From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine |
| | | pollution) |



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References

UN = United Nations Not available.

:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.