MITSUBISHI CHEMICAL

LUCITE 6751
Version: 1
Revision Date: June 18, 2018

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** : L U C I T E 6 7 5 1

**Other means of identification** : None

**Product description** : Polymer based on Methyl methacrylate.

**Recommended use and** : Coatings.

**Restrictions on use** : Industrial use only.

**Manufacturer/Importer/Supplier/Distributor information**

**Importer's Name/Address** : Not available.

Telephone number :
Fax number :
E-mail address :

**Supplier's Name/Address** : MITSUBISHI CHEMICAL CORPORATION

Technology Administration Group, Performance Chemicals Division, High Performance Chemicals Business Domain

1-1, Marunouchi 1-Chome, Chiyoda-ku, Tokyo 100-8251, Japan

Telephone number : +81-3-6748-7501
Fax number : +81-3-3286-1366

E-mail address : mrc-jugito@m-chemical.co.jp

**Emergency Telephone Number** : +81-3-6748-7501 (Monday - Friday, 9:30 a.m.-6:00 p.m. Japan Time)

## 2. Hazard(s) identification

Not a Hazardous Chemical according to Hazard Communication Standard (HCS).

**Physical hazards** : Not classified as a physical hazard.

**Health hazards** : Not classified as a health hazard.

**Environmental hazards** : Not classified as a environmental hazards

**Label elements**

**Signal Word** : No signal word

**Hazard statements** :

No hazard statements.

**Symbol(s):** : No symbol

**Precautionary statements**

Prevention : No precautionary phrases.

Response : No precautionary phrases.

Storage : No precautionary phrases.

Disposal : No precautionary phrases.

**Hazards not otherwise classified** : Combustible but not readily ignited.

## 3. Composition/information on ingredients

| | | |
|---|---|---|
| Substance/Mixtures | : | Substance |
| Chemical name | : | Poly(Methyl methacrylate) |
| Common name and synonyms | : | None |
| CAS Number | : | 9011-14-7 |
| Impurities and stabilizing additives. | : | No classifiable hazardous ingredient(s) |

## 4. First-aid measures

**General information** : -

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If the patient continues to feel unwell, get immediate medical attention.

**Skin contact** : Remove contaminated clothing. Flush exposed area with water,
get medical attention.
Wash contaminated clothing before re-use.

**Eye contact** : Flush eyes with running water for at least 15 minutes while
if present and easy to do. Continue rinsing. Seek medical advice.
If persistent irritation occurs, obtain medical attention.

**Ingestion** : If swallowed, DO NOT induce vomiting. If symptoms persist, call a physician.
If a person vomits when lying on his back, place him in the recovery position.

**Most important symptoms/effects, acute and delayed:**

-

**Indication of immediate medical attention and special treatment needed:**

No specific recommendations.

## 5. Fire-fighting measures

**Suitable extinguish media** : Foam, carbon dioxide ($CO_2$), dry chemical, dry sand, or water spray.

Unsuitable extinguish media : Do not use water jet as this may spread the fire.

**Specific hazards arising from the chemical** : Combustible but not readily ignited. May form explosible dust clouds in air.
Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors.

**Special protective equipment and precautions for fire-fighters** : Wear full protective clothing and self-contained breathing apparatus (SCBA) (NIOSH approved) operated in positive pressure mode.

**Fire-fighting procedures** : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fight fire from safe distance.
In the event of fire and/or explosion do not breathe fumes.

## 6. Accidental release measures

| | | |
|---|---|---|
| **Personnel precautions, protective equipment and emergency procedures** | : | Wear protective equipment (refer to Section 8) . Remove all sources of ignition. Avoid breathing dust. Avoid dust formation. Ensure adequate ventilation. Deny entry to unnecessary and unprotected personnel. Spillages may be slippery. Sweep up to prevent slipping hazard. |
| **Methods and materials for containment and cleaning up** | : | Sweep up and shovel into waste drums or plastic bags. Clean contaminated surface thoroughly. |
| **Environment precautions** | : | Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. |

## 7. Handling and storage

| | | |
|---|---|---|
| **Precautions for safe handling** | : | Use in a well-ventilated areas. Wear adequate protective equipment. See Section 8. Avoid contact with eyes. Keep away from heat, fire, open flames, and all ignition sources. Dry powders can build up of electrostatic charge when subjected to friction during transfer and mixing operations. Provide adequate precautions such as electrical grounding and bonding or inert atmospheres. Avoid prolonged skin contact. Do not breathe dust under dust forming condition. Unlikely to represent a dust hazard under normal handling conditions. Thermal processing requires adequate ventilation to remove any monomer decomposition products. Wash hands thoroughly after handling and before eating, drinking or smoking. |
| **Conditions for safe storage, including any incompatibilities** | : | Keep the product in the original containers. Keep containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate. Keep away from feed, food and drinking water. Keep out of the reach of children. Incompatible with strong acids and oxidizing agents. |
| Storage Temperature | : | Ambient. |
| **Additional information** | : | Ensure that storage and handling conditions comply with applicable local and national regulations. |

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**(OSHA Table Z-1 Permissible Exposure Limit (PELs), OSHA Table Z-2)**

| Chemical name | OSHA Z1-PEL | OSHA Z2-TWA | OSHA Z2-Ceiling | Notation |
|---|---|---|---|---|
| Methyl methacrylate | 100ppm 410mg/m3 | | | |
| Particulates (Total dust)<br>(Respirable dust) | 15 mg/m3<br>5 mg/m3 | Not established. | Not established. | Not otherwise regulated |

**(ACGIH Threshold Limits Values)**

| Chemical name | ACGIH TLV-TWA | ACGIH TLV-STEL | Ceiling | Notation |
|---|---|---|---|---|
| Methyl methacrylate | 50ppm | 100ppm | | DSEN; A4 |

**(Biological Exposure Index (BEI))**

| Chemical name | Determinant | Sampling time | BEI | Reference |
|---|---|---|---|---|
| | | | Not established. | |

**Monitoring Method** : Examples of sources of recommended air monitoring methods are given below.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical methods, http://www.cdc.gov/niosh/nmam/nmammenu.html.

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods, http://www.osha-slc.gov/dts/sltc/methods/toc.html.

**Appropriate engineering controls** : Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded.
Installing explosion relief vents for dust control equipment (e.g., local exhaust ventilation and material transport systems) are recommended in case air transporting this product.
Install a wash basin and eye bath near the handling and work areas.
Indicate the locations of these facilities clearly and prominently.
The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** :

Wear eye/face protection.
Safety spectacles/Goggles/Full face shield.
Chemical safety goggles meeting the specifications of ANSI Standard Z87.1 are to be worn whenever there is the possibility of contact with the eyes.

**Skin protection** :

Wear appropriate chemical resistant gloves and footwear.
Wear appropriate work wear.

Chemical resistant gloves : Rubber gloves.
If there are any signs of degradation or breakthrough, gloves should be replaced.

**Respiratory protection** :

Use dust respirators with an appropriate filter if ventilation is insufficient, under dust or aerosol forming conditions or in spillage clean up.
Use NIOSH approved respiratory equipment.
Respirators should be selected based on the form and concentration of the contaminant in the air and in accordance with OSHA (29 CFR 1910.134).

**Thermal hazards** : Not applicable.

**Other requirements for protection** : All protective equipment should be inspected periodically. Ventilation and protection devices should conform to national requirements.

**Environmental exposure controls** : -

## 9. Physical and chemical properties

| | | |
|---|---|---|
| **Appearance** | : | White beads |
| **Odor** | : | Slight ester |
| **Odor threshold** | : | Not available. |
| **pH** | : | Not applicable. |
| **Melting point/freezing point** | : | 150-230℃ |
| **Initial boiling point and boiling range** | : | Not available. |
| **Flash point** | : | Data not available |
| **Evaporation rate** | : | Not available. |
| **Upper/lower flammability limits:** | | Not available. |
| **Vapor pressure** | : | Not available. |
| **Vapor density** | : | Not available. |

| | | |
|---|---|---|
| **Specific gravity** | : | 1.18 |
| **Solubility in Water** | : | Insoluble |
| **Partition coefficient: n-octanol/water** | : | Not available. |
| **Auto-ignition temperature** | : | Not available. |
| **Decomposition temperature** | : | Not available. |
| **Viscosity** | : | Not available. |
| **% Volatile** | : | <2% |
| **Color (APHA)** | : | Not available. |
| **Surface tension** | : | Not available. |
| **Refractive index** | : | Not available. |

## 10. Stability and reactivity

| | | |
|---|---|---|
| **Reactivity** | : | Reacts with incompatible materials. |
| **Chemical stability** | : | Stable under normal use and storage conditions. |
| **Possibility of hazardous reactions** | : | Dust may form an explosive mixture in air. |
| **Conditions to avoid** | : | Keep away from heat and sources of ignition.<br>Avoid dust formation and accumulation. |
| **Incompatible materials** | : | Strong acid and oxidizing agents. |
| **Hazardous decomposition products** | : | Acrylic monomer(s), carbon oxides |

## 11. Toxicological information

| | | |
|---|---|---|
| **Information on the likely routes of exposure** | : | Not available. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | : | Not available. |
| **Acute oral toxicity** | : | The acute toxicity of this product is expected to be low. |
| **Oral toxicity data** | : | Not available. |
| **Acute dermal toxicity** | : | The acute toxicity of this product is expected to be low. |
| **Dermal toxicity data** | : | Not available. |
| **Acute inhalation toxicity** | : | The acute toxicity of this product is expected to be low. |
| **Inhalation toxicity data** | : | Not available. |
| **Subchronic toxicity data** | : | Based on the data of the individual components, the subchronic toxicity is expected to be low. |
| **Skin corrosion/irritation** | : | Unlikely to cause skin irritation. |
| **Serious eye damage/eye irritation** | : | The dust of this product may cause mechanical eye irritation. |
| **Respiratory sensitization** | : | Not expected to be a respiratory sensitizer. |
| **Skin sensitization** | : | Based on the data of similar products, not a skin sensitizer.<br>Contains greater than 0.1% residual (Methyl methacrylate).<br>During normal handling this will not constitute a hazard. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix.<br>Under these conditions, they may produce an allergic reaction in persons already sensitized. |

| | | |
|---|---|---|
| **Germ cell mutagenicity** | : | Not expected to be mutagenic. |
| **Carcinogenicity** | : | Not expected to be a carcinogen.<br>NTP: Not listed.<br>IARC: 3 (not classifiable as to carcinogenicity to humans.) (CAS RN 80-62-6, Methyl methacrylate).<br>OSHA: Not listed. |
| **Reproductive toxicity** | : | Not expected to be toxic to reproduction. |
| **Specific target organ toxicity - single exposure** | : | Not expected to cause toxicity to a specific target organ. |
| **Specific target organ toxicity - repeated exposure** | : | Not expected to cause toxicity to a specific target organ. |
| **Aspiration hazard** | : | Not expected to be an aspiration hazard. |
| **Chronic effects** | : | Not expected to cause chronic effects. |

## 12. Ecological information

| | | |
|---|---|---|
| **Ecotoxicity** | : | Not expected to be harmful or toxic to aquatic organisms. |
| **Persistence and degradability** | : | Not available. |
| **Bioaccumulative potential** | : | Not available. |
| **Mobility in soil** | : | Not available. |
| **Other adverse effects** | : | Not available. |

## 13. Disposal considerations

| | | |
|---|---|---|
| **Disposal methods** | : | Disposal must be in accordance with applicable regional, national, and local laws and regulations.<br>Do not dispose into the environment, in drains or in water courses.<br>Waste product should not be allowed to contaminate soil or water. |
| **Material disposal** | | Incineration is recommended for disposal of this product.<br>Use incinerators with exhaust-gas treatment devices, because incineration will produce toxic gases. |
| **Container disposal** | | Containers/bags should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. |

## 14. Transport information

**DOT**

| | | |
|---|---|---|
| **UN Number** | : | - |
| **Proper Shipping Name** | : | - |
| **Transport hazard class(es)** | : | Not regulated as a dangerous goods. |
| **Label(s)** | : | - |
| **Packing group** | : | - |
| **Environmentally hazardous** | : | No |
| Emergency Response Guide No. | : | - |

**IMDG**

| | | |
|---|---|---|
| **UN Number** | : | - |
| **UN Proper Shipping Name** | : | - |

| | | |
|---|---|---|
| **Transport hazard class** | : | Not regulated as a dangerous goods. |
| **Packing group** | : | - |
| **Marine pollutant (Yes/No)** | : | No |

**IATA**

| | | |
|---|---|---|
| **UN Number** | : | - |
| **UN Proper Shipping Name** | : | - |
| **Transport hazard class** | : | Not regulated as a dangerous goods. |
| **Packing group** | : | - |
| **Environmentally hazardous** | : | No |

**Special precautions for** : Read precautions in this SDS before handling. See Section 6, 7 and 8.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

This material is not applicable.

## 15. Regulatory information

US federal regulations

U.S. Toxic Substance Control Act (TSCA) Inventory Status

All components are listed on the TSCA Chemical Substance Inventory or subject to applicable exemptions under TSCA.

OSHA

This product is considered to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910. 1200.

U.S. Resource Conservation and Recovery Act (RCAR)

If discarded in its manufactured form, this product is a solid waste under RCRA.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 313, toxic chemicals subjected to reporting : Not listed.

US state regulations

US. California Proposition 65

This product contains no chemicals known to the state of California to cause cancer or reproductive toxicity.

**International Chemical Inventories**

| | | |
|---|---|---|
| TSCA | : | Listed. |
| ENCS (JP) | : | Listed. |

## 16. Other information

| | | |
|---|---|---|
| **SDS Version Number** | : | 1 |
| **SDS Revision Date** | : | June 18, 2018 |

**Reference**

None :

**Disclaimer** : The above information is provided in good faith based on our current knowledge of the product. However, we make no representations or warranties as to specific product properties, or the completeness or accuracy of the data and evaluations

contained herein.
The statements and precautions herein are intended only as a guidance for the appropriate precautionary handling of the product by a properly trained person using the product. Individuals handling the product shall be responsible for implementing safety measures appropriate to the specific condition, process, use, or handling of the product.