SAFETY DATA SHEET

1. Chemical product and company identification

Product name: Multilon® T-2711
SDS Number: T2711-JpE
Version number: 01
Issue date: 04-01-2013
Company name: TEIJIN Limited.
Address: 2-1, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100-8585, Japan
Telephone number: +81 3-3506-4717
Fax: +81 3-3580-6680

Recommended use of the chemical and restrictions on use
Intended use: Molding material for industry use

2. Hazards identification

GHS-classification: The product is not classified according to GHS.
Label elements: None.
Precautionary statement: None.
National/local information: See section 15 for regulatory information.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance or Mixture</th>
<th>CAS #</th>
<th>ENCS no.</th>
<th>ISHL no.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycarbonate resin</td>
<td>25971-63-5</td>
<td>(7)-738</td>
<td>(7)-738</td>
<td>50 – 60</td>
</tr>
<tr>
<td>Acrylonitrile butadiene styrene resin</td>
<td>9003-56-9</td>
<td>(6)-176</td>
<td>(6)-176</td>
<td>30 – 40</td>
</tr>
<tr>
<td>Modifier</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>=&lt; 10</td>
</tr>
</tbody>
</table>

Chemical formula: (C15H16O2.CCl2O)x (25971-63-5), (C8H8.C4H6.C3H3N)x (9003-56-9)

4. First aid measures

If inhaled: In case of inhalation of dusts or fumes from heated product: Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.
If on skin: Rinse with water. Get medical attention promptly if symptoms persist or occur after washing. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.
If in eyes: Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.
If swallowed: Rinse mouth thoroughly. Large quantities: Get medical attention if symptoms occur.

Expected acute and delayed symptoms: The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals.

Protection of first-aid responders: First aid personnel must be aware of own risk during rescue.
Notes to physician: Treat symptomatically.

5. Fire-fighting measures

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.
Extinguishing media to avoid: None.
Specific hazards: During fire, gases hazardous to health may be formed.
Special fire fighting procedures: Use standard firefighting procedures and consider the hazards of other involved materials.
Protection of fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
6. Accidental release measures

Personal precautions, protective equipment and emergency measures
Avoid inhalation of dust and contact with skin and eyes. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions
Do not allow to enter drains, sewers or watercourses.

Clean-up methods and materials and containment measures
Collect and dispose of spillage as indicated in Section 13 of the SDS.

7. Handling and storage

Handling

Technical measures
Use explosion-proof electrical equipment if airborne dust levels are high.

Local and general ventilation
Provide adequate ventilation.

Precautions
Use work methods which minimize dust production. Wear appropriate personal protective equipment.

Safe handling advice
Avoid inhalation of dust and contact with skin and eyes. Avoid vapors from heated materials to prevent exposure to potentially toxic/irritating fumes.

Storage

Technical measures
Avoid dust formation.

Suitable storage conditions
Store in closed original container in a dry place.

Safe packaging materials
Keep in original container.

8. Exposure controls/personal protection

Engineering measures
Provide adequate ventilation. Japan Society of Occupational Health, class 3 dust (limestone, other inorganic and organic dusts): respirable dust 2 mg/m³, total dust 8 mg/m³.

Personal protective equipment

Respiratory protection
Wear respirator if there is dust formation. When the product is heated, use suitable respiratory equipment with gas filter for organic gas.

Hand protection
Wear protective gloves. When material is heated, wear gloves to protect against thermal burns.

Eye protection
Use tight fitting goggles if dust is generated. If contact with hot material may occur, safety glasses and face shield are recommended.

Skin and body protection
Wear suitable protective clothing.

Hygiene measures
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state
Solid.

Form
Pellets.

Color
Natural.

Odor
None.

pH
Not applicable.

Melting point/Freezing point
Not available.

Boiling point, initial boiling point, and boiling range
Not applicable.

Flash point
Not available.

Auto-ignition temperature
Not available.

Combustion characteristics (solid, gas)
Not available.

Flammability limit - lower (%)
Not available.

Flammability limit - upper (%)
Not available.

Vapor pressure
Not applicable.

Vapor density
Not applicable.

Specific gravity
1.14

Solubility
Insoluble in water
Partition coefficient (n-octanol/water) Not available.
Decomposition temperature Not available.

10. Stability and reactivity
Stability Stable under normal temperature conditions.
Possibility of hazardous reactions Will not occur.
Conditions to avoid None known.
Incompatible materials No data available.
Hazardous decomposition products During combustion: Carbon monoxide. Carbon Dioxide.

11. Toxicological information
Acute toxicity May cause discomfort if swallowed.
Skin corrosion/irritation Dust may irritate skin.
Serious eye damage/eye irritation Dust in the eyes will cause irritation. May cause redness and pain.
Respiratory sensitizer None known.
Skin sensitizer The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals.
Germ cell mutagenicity None known.
Carcinogenicity Not classified.
IARC Monographs. Overall Evaluation of Carcinogenicity
Acrylonitrile butadiene styrene resin (CAS 9003-56-9) 3 Not classifiable as to carcinogenicity to humans.
Respiratory sensitizer None known.
Specific target organ toxicity - single exposure None known.
Specific target organ toxicity - repeated exposure None known.

12. Ecological information
Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence/degradability None known.
Bioaccumulation None known.
Mobility in soil The product is insoluble in water and will sediment in water systems.
Other hazardous effects None known.

13. Disposal considerations
Residual waste Dispose of waste at a facility with special permission to dispose industrial wastes. Waste should be accompanied by a manifest for the industrial waste. Dispose of in accordance with local regulations. Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information
International regulations Not regulated as dangerous under UN transport regulation.
IATA Not regulated as dangerous goods.
IMDG Not regulated as dangerous goods.

15. Regulatory information
Industrial Safety and Health Act
Specified substances regulation Not regulated.
Organic solvents regulation Not regulated.
Notifiable substances Not regulated.
Labeling substances Not regulated.
Poisonous and Deleterious Substances Control Act  Not regulated.
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
  Class I specified chemical substances  Not regulated.
  Class II specified chemical substances  Not regulated.
  Monitoring chemical substances  Not regulated.
Law concerning Pollutant Release and Transfer Register
  Specified class 1 substances (substance name, ordinance number and content)  Not regulated.
  Class 1 substances (substance name, ordinance number and content)  Not regulated.
  Class 2 substances (substance name, ordinance number and content)  Not regulated.
Law concerning Pollutant Release and Transfer Register
  Specified class 1 substances (substance name, ordinance number and content)  Not regulated.
  Class 1 substances (substance name, ordinance number and content)  Not regulated.
  Class 2 substances (substance name, ordinance number and content)  Not regulated.
Fire Service Act  Not dangerous goods under Fire Service Law
  Class 1 substances (substance name, ordinance number and content)  Not regulated.
  Class 2 substances (substance name, ordinance number and content)  Not regulated.
Air Law, Enforcement Rule  Not regulated.
Explosives Control Act  Not regulated.
High Pressure Gas Safety Act  Not regulated.
Act on Prevention of Marine Pollution and Maritime Disaster  Not regulated.

16. Other information
The information about colorant is not contained in this SDS.

This information is provided without warranty. The information is believed to be correct. The precautions in this SDS are intended for normal use. Please take safety measures appropriate to the use and the application when handling the product in a special way. This information should be used to make an independent determination of the methods to safeguard workers and the environment.