

### 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

Product Name : RX640 LED Dispenser  
 Product Use : For household appliances, electronic materials and industrial Materials .  
 Manufacturer name : Rx Technology Sdn. Bhd.  
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### 2. HAZARD IDENTIFICATION

GHS Classification : This product is not classified under hazardous according to JIS Z 7252: 2014 (Labelling of chemicals based on GHS).  
 GHS –Label elements : Not applicable  
 Other hazards which are not covered by GHS : This product may release small amount of volatile gases which may cause irritation to eyes, nose and throat. Use adequate local exhaust ventilation during drying and molding of the product. Sweep up and dispose any spilled product to eliminate slipping hazards. Do not pile up the product too high to avoid any injuries caused by falling of the product.  
 Major symptom and envisioned emergency : No information available

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Substance/mixture : Mixture  
 Chemical Name : Mixture of Acrylonitrile-Butadiene-Styrene Copolymers and Additives  
 Synonyms : ABS Resin

Common Chemical name	Chemical Formula	CAS No.	ENCS No .	ISHL No .	Composition
1 Acrylonitrile-Butadiene-Styrene Copolymer (or Mixture of A, Band / or C )	-	Regd.	Regd.	Existing	95% or more
A Acrylonitrile-Butadiene-Styrene Copolymer	-[(C8K8)k-(C3H3N)l-C4H6)m]n-	9003-56-9	6-176	Existing	-
B Acrylonitrile-Styrene Copolymer	-[(C8K8)k-(C3H3N)l]m-	9003-54-7	6-126	Existing	-
C Copolymer of Acrylonitrile, Styrene and other component (other component 0-10%)	-	Regd	Regd	Existing	-
2 Additives	-	Regd	Regd	Existing	5% or less
3 Styrene (Impurities which not contribute to GHS classification)	C8H8	100-42-5	3-4	323	0.05-0.2%

**4. FIRST AID MEASURES**

Inhalation	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of accident by inhalation: remove casualty to fresh air and keep at rest. It is not likely for the resin pellets to be inhaled. In case of inhalation of gases and fumes from melting resin, remove casualty to fresh air. If the casualty has difficulties in breathing or coughing, seek medical assistance immediately.
Skin contact	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash skin thoroughly with water and mild soap. In case of contact with melting resin, cool rapidly with water and seek medical assistance immediately. In case of contact with fume condensate from melting resin, wash thoroughly the affected area with water and soap. Seek medical assistance immediately if irritation develops.
Eye contact	: Gently rinse the affected eyes with clean water for at least 15 minutes. If the casualty wears contact lenses, have them removed and continue rinsing. Avoid the casualty from rubbing eyes. Transport casualty to the nearest medical facilities for treatment as soon as possible.
Ingestion	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Protective measures for a first-aid person	: Wear protective gloves when removing melting polymer or high temperature polymer.

**5. FIRE FIGHTING MEASURES.**

Extinguishing media	: In case of fire, use water mist, water jet, foam, dry powder or carbon dioxide.
Specific hazards under fire	: In case of fire and /or explosion, do not breathe in fumes. Toxic gases such as carbon monoxide, carbon dioxide, nitrogen oxides will form upon combustion of this product. Fires involving this material may produce large amounts of sooty smoke.
Specific fire-fighting measures	: Apply water from a safe distance to cool and protect surrounding area. Move container from fire areas if it can be done without risk, Keep personnel removed from and upwind of fire. Evacuate non-essential personnel to safe area.
Protection of fire fighters	: Fire fighters should wear proper protective equipment.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Sweep up spilled resin pellets on road or floor to avoid slipping.
- Measures for environmental effects : Do not flush into sewer or drain.
- Methods and materials for containment and for cleaning up : Sweep up, place in bag and hold for waste disposal.
- Preventive measures for secondary accident : Shut off all sources of ignition. No flares, smoking or flames in area.

**7. HANDLING AND STORAGE****Handling**

- Exposure control for handling personnel : When using do not eat or drink.  
When using do not smoke.  
Do not breathe dust. Do not breathe gas / fumes
- Protective measures against fire and explosion : Take precautionary measures against static charges,
- Local ventilation / total air ventilation : Use adequate local ventilation to remove fumes generated from molten resin during processing with molding machine or extruder.  
Use total ventilation with ventilation fans if above work are carried out in a building.
- Safety measures / incompatibility : Do not empty into drains.  
Avoid rough handling or dropping. Do not breathe the fumes generated during processing of the resin, because it stimulates skin and respiratory organs. Prevent deposition of dust, because a dust explosion may happen with the presence of static electricity or electric spark .

**Storage**

- Recommendation for storage : This product is a flammable material. Follow fire defense law and local regulations for storage and handling. Keep the product away from direct sunlight, water leak, moisture and any source of heat and ignition. Store it in a well-ventilated and locked up place.
- Incompatible storage condition : Keep away from heat .
- Recommendation on container and packaging materials : Use unbreakable containers and packaging materials that satisfy the storage condition.

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION.****Control parameters**

Administrative levels : Administrative levels are not established.  
(Industrial Safety and Health Act)

Japan Society for Occupational Health and ACGIH do not determine the adopted value of powder-dust.  
Generally, data shown below is known about dusts,

Recommended value of Japan Society : The weighted average per hour: inhaled dusts 2 mg/m<sup>3</sup>, total  
for Occupational Health (2008) – dusts 8 mg/m<sup>3</sup>  
Class 3 dust: 3

Recommended value of ACGIH (2003) : The weighted average per hour. inhaled dust 3 mg/m<sup>3</sup>, total dusts  
-General dust 10 mg/m<sup>3</sup>

DNEL(Derived No Effect Level) : No information available.

PNEC(Predicted No Effect Concentration) : No information available.

**Exposure control**

Use adequate local ventilation to remove fumes generated during processing of the resin and to maintain comfortable work environment.

**Safety and health measures**

Respiratory protection : Wear dust protective mask to avoid from inhaling dust generated during machining, sanding and etc. Wear respirator for organic gases to avoid from inhaling fumes generated during processing of the resin.

Hand protection : It is desirable to wear protection gloves to avoid direct contact of skin with the resin. Wear heat resistant protection gloves during handling of melting polymer or high temperature polymer.

Eye protection : Wear protective eye glasses with side shields or chemical safety goggles.

Skin and body protection : It is desirable to wear long sleeve clothing so as not to touch skin directly. Wear protection clothing of heat-resistance when handling melting polymer,

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Pellet shaped solid

Color : Light yellow

Odor : None

pH : N/A

Boiling point : N/A

Boiling range (Mixture) : N/A

Metting point : This product softens gradually over a broad temperature range (130–150°C)

Decomposition temperature : N/A



Flash point	: N/A
Ignition temperature	: About 405°C
Explosion limit (Upper)	: NA
Explosion limit (Lower)	: 60g/m <sup>3</sup> (particle size <0.2mm)
Relative density	: 1.02-1.08
Vapor pressure	: N/A
Vapor density	: N/A
Solubility	: Insoluble in water. Partly soluble in organic solvent.
Octanol / water partition coefficient	: N/A

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	: This product is considered a stable material under normal and anticipated storage and handling conditions.
<b>Possibility of hazardous reactions</b>	: This product is considered a stable material under normal and anticipated storage and handling conditions.
<b>Conditions to avoid</b>	: Direct sunlight, fire, sources of heat etc.
<b>Incompatible materials</b>	: None
<b>Decomposition products</b>	: Black smoke, carbon monoxide, carbon dioxide, nitrogen oxides and etc maybe generated in the case combustion of this product .

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity	: Not classified
Skin corrosion / irritation	: Classification not possible. (N/A)
Serious eye damage / eye irritation	: Classification not possible. (N/A)
Respiratory or skin sensitization	: Classification not possible. (N/A)
Germ cell mutagenicity	: Not classified
Carcinogenic effects	: Not classified
Toxicity for reproduction	: Not classified
Specific target organ / systemic toxicity (Single exposure)	: Not classified
Specific target organ / systemic toxicity (Repeated exposure)	: Not classified
Aspiration hazards	: Classification not possible. (N/A)

This product is classified into the above classifications based on judgment theory of a mixture.

### 12. ECOLOGICAL INFORMATION

Ecological toxicity (Acute)	: Not classified
Ecological toxicity (Chronic)	: Not classified
Biodegradability	: Classification not possible. ( N/A)
Bioaccumulation	: Classification not possible. (N/A)
Mobility in soil	: Classification not possible. (N/A)
Adverse effect to the ozone layer	: Classification not possible. (N/A)
Other adverse effects	: No information available

This product is classified into the above classifications based on judgment theory of a mixture.

### 13. DISPOSAL CONSIDERATIONS

Dump the waste matters following law, rules and regulations.

Dispose to an authorized waste collection point.

Do not cast waste (waste fluid, solid waste and washing drainage etc.) that includes this product directly into a river, or bury it underground

Check if there is no resin left, if disposing the package after use. (paper package, flexible container etc.)

Do not use the package for other purposes.

### 14. TRANSPORTATION INFORMATION

UN number	: Not applicable
UN proper shipping name	: Not applicable
Transport hazard class(es)	: Not applicable
Packing group	: Not applicable
Environmental hazards	: Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not applicable
The Laws and Regulations for transportation in Japan	: Not applicable
ERG Guide No.	: Not applicable
Special precautions for user	: No information available
Specific safety measures and conditions:	Avoid wetting or rough handling so that the packaging will not be damaged. In case the bags are damaged and the pellets are scattered, pay attention so that no one will slip and fall. All of the spilled product should be collected immediately and placed in proper labeled container for dispose or recovery. Take precautionary measures against static discharges when using pneumatic transportation on transport .

### 15. REGULATORY INFORMATION

Other regulatory information : We are not able to check up the regulatory information in regard to the substances in your country or region. Therefore, we request this matter would be filled by your responsibility. Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility. Ensure this product in compliance with federal requirements and ensure conformity to local regulations

### 16. OTHER INFORMATION

The information relates to this specific material. It may not be valid for this material, if used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.

The information herein is given in good faith, but no warranty, express or implied, is made. Please consult us for further information.

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