

## Safety Data Sheet

No. 5090A

SDS version: 3.1

Revision date : 2020/10/08

Print date :

### 1. CHEMICALS AND COMPANY IDENTIFICATION

Chemicals name : TPU RESINS
Other names : —
Product code : ISOTHANE 5090A
Use recommendations and limitations : Injection, Extrusion.
Name, addresses, and phone numbers of the manufacturer, importer or supplier : GREAT EASTERN RESINS INDUSTRIAL CO., LTD. 35, 34 <sup>TH</sup> Road, Taichung Industrial Park, Taichung, Taiwan 407, R. O. C. Telephone : 886-4-2358-7676
Emergency contact phone numbers/fax numbers : TEL: 886-4-2358-7676 FAX: 886-4-2358-7575
E-mail address of person responsible for Safety Data Sheet : tw2719@greco.com.tw

### 2.HAZARDS IDENTIFICATION

Chemicals hazard classification : —
Label contents :
· Pictogram : —
· Signal words : —
· Hazard statements : Solid or dust may cause irritation or corneal injury due to mechanical action.
· Precautionary statements : —
· Other hazards : —

### 3.INGREDIENTS IDENTIFICATION INFORMATION PURE MATERIAL :

Name : Thermoplastic polyurethane
Synonyms : —
CAS No. : —
The hazardous ingredient ( % of the content ) : No hazardous ingredients

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### 4.FIRST-AID MEASURES:

The first-aid measures for different exposure routes :

- inhalation : In case of breathing, fumes released from heated material may cause respiratory irritation. In case of inhaling dense smoke, immediately remove the person to fresh air area.
- skin contact : Essentially nonirritating to skin but rinse with running water.
- eye contact : Immediately rinse eyes with plenty of running water and seek for medical advice.
- ingestion : If vomiting occurs, lower the head to ease vomiting and seek for medical advice.

The most important symptoms and hazardous effects : Have not obviously endangered.

The protection of first-aiders : Have not obviously endangered.

Notes to physicians : Have not obviously endangered.

### 5.FIRE-FIGHTING MEASURES :

Suitable fire extinguishing media :

Water spray and water, dry chemical powder, alcohol foam, and carbon dioxide.

Special hazards may be encountered during fire-fighting :

Have not obviously endangered.

Special fire-fighting methods :

Water spray and water, dry chemical powder, alcohol foam, and carbon dioxide.

Special equipments and protections for fire-fighters :

The fireman must equip with protective clothing and contained breathing.

### 6.ACCIDENTAL RELEASE MEASURES

Personal precautions : Have not obviously endangered.

Environmental precautions : Have not obviously endangered.

Methods for cleaning up : Sweep, use vacuum cleaner, or shovel into intact packaging for waste disposal or possible re-use.

### 7.SAFE HANDLING AND STORAGE MEASURES

Handling : Keep bags / containers in a well ventilated place.

Storage : Keep bags always closed. Avoid pellets / bags from getting wet.

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### 8.EXPOSURE CONTROLS MEASURES

Engineering control :			
Control parameters			
8 hours time weighted average exposure limits	Short-term exposure limits	Maximum exposure limits	Biological standards
—	—	—	—
Personal protective equipment :			
<ul style="list-style-type: none"> <li>· respiratory protection : Have not obviously endangered.</li> <li>· hand protection : Rubber gloves.</li> <li>· eye protection : Safety glasses/face shield.</li> <li>· skin and body protection : Rubber gloves.</li> </ul>			
Hygiene measures : Keep the work area clean and drying.			

### 9.PHYSICAL AND CHEMICAL PROPERTIES

Appearances(state, color, etc.) : Transparent pellet.	Odor : Almost odorless.
Odor threshold : —	Melting point : 140~160 °C
pH value : —	Boiling point / Boiling range : —
Flammability (solid 、 liquid) : —	Flashpoint : — °F — °C
Decomposition temperature : —	Test method (Open cup or Close cup) : —
Autoignition temperature : —	Explosion limits : —
Vapor pressure : —	Vapor density : —
Density : 1.13~1.18	Solubility : Soluble in DMF
Octanol / Water partition coefficient : —	Evaporating rate : —
Viscosity : —	Explosive properties : —
Oxidising properties : —	

### 10.STABILITY AND REACTIVITY

Reactivity :
Stability : Have not obviously endangered.
Possible hazardous reactions occurring under specific conditions : Have not obviously endangered.
Conditions to avoid : Have not obviously endangered.

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Materials to avoid : Have not obviously endangered.

Hazardous decomposition products : Have not obviously endangered.

### 11.TOXICOLOGICAL INFORMATION

Exposure routes : Have not obviously endangered.

Symptoms : Have not obviously endangered.

Acute toxicity : Have not obviously endangered.

Chronic toxicity or long term toxicity : Have not obviously endangered.

### 12.ECOLOGICAL INFORMATION

Ecotoxicity : Have not obviously endangered.

Persistence and degradation : —

half-life (air) : —

half-life (surface water) : —

half-life (ground water) : —

half-life (soil) : —

Organism accumulation :

Movement through soil, Koc :

Other negative effects :

### 13.WASTE DISPOSAL MEASURES

Methods of waste disposal :

This product may be recycled either back into original parts or into other suitable applications.

Dispose according to local regulations.

### 14.TRANSPORT INFORMATION

United Nation number (UN No) :

Not classified as hazardous material under transportation regulation.

UN proper shipping name : —

Transport hazard classification : —

Packing Group : —

Ocean contaminants (Yes/No) : NO

Specific transport measures and precautionary conditions : —

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### 15.REGULATORY INFORMATION

Applicable regulations :

TSCA compliance: The material is listed on the TSCA Inventory as Active.

### 16.OTHER INFORMATION

Reference	The information and guidelines for safe handling and processing is based on currently available experience and knowledge. It is not designed as a guide to application possibilities of our materials. It does not discharge the user from ensuring that other obligations do not exist above concerning product possession and handling for which he is the solely responsible.	
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Prepared by	Title : Researcher	Name (Signature) : Chen, Ming-Yi
Issued date	Oct 8, 2020	
Remarks	The information shown above with symbol "—" represents no available information and symbol "—" represents this column is not applicable to this material.	