

# Safety Data Sheet(SDS)

Last revised date : 04-06-2024

#### 1. Identification

<ol> <li>Product identifier : PA/GF GB-930</li> </ol>
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2) Recommended use of the chemical and restrictions on use

- Recommended use of the chemical Others(Synthetic Resin Plastics)
- Restrictions on use

Use for recommended use only Do not use it for weapons manufacturing and related purposes.

- 3) Details of the supplier of the safety data sheet
  - $\circ \, \text{Seller}$

Company name : Lotte Chemical Corporation

Address : 05551 Lotte World Tower, 300, Olympic-ro, Songpa-gu, Seoul, 05551 Rep. of KOREA

Telephone number :

	null	null	null	null				
Eme	nergency phone number							
	null	null	null	null				
	null	null	null	null				

Fax number : +82-2-834-6070

#### 2. Hazards identification

1) Hazard classification

- Not applicable

2) Allocation label elements

Hazard pictograms

- Not applicable

Signal word

- NONE

Hazard statements

- Not applicable

#### Precautionary statements

- Not applicable
- 3) Other hazards:

According to experience and information provided, this product does not affect harmful effects when using and handling it as a regulation.

# 3. Composition/Information on ingredients

Chemical name	Common name	CAS No.	Content(wt%)
Polycaprolactam	Nylon 6	25038-54-4	>=55 ~ <=65
Glass, oxide	Glass, oxide, chemicals	65997-17-3	>=25 ~ <=35
Confidential for Component	Confidential for Component		>=1 ~ <=10

#### 4. First-aid measures

- 1) Following eye contact
  - Call a physician immediately.
- 2) Following skin contact
  - Get medical attention if irritation develops and persists.
  - Remove contaminated clothing and shoes.
- 3) Following inhalation
  - If symptoms persist, call a physician.
  - Move to fresh air.
- 4) Following ingestion
  - If accidentally swallowed obtain immediate medical attention.
- 5) Delayed and immediate effects and also chronic effects from short and long term exposure No data available
- 6) Advice to physician
  - In the case of accident or if you feel unwell, seek medical advice immediately.

#### 5. Fire-Fighting measures

- 1) Suitable (and unsuitable) extinguishing media
  - Suitable extinguishing media
    - Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
  - ° Unsuitable extinguishing media
    - Do not use a solid water stream as it may scatter and spread fire.

- 2) Special hazards arising from the substance or mixture
  - Pyrolytic product
    - No data available
  - $^{\circ}$  Risk of fire and explosion
    - Heating or fire can release toxic gas.
  - ° Other
    - May cause toxic effects if inhaled.
- 3) Special protective equipment for firefighters
  - In the event of fire, wear self-contained breathing apparatus.

#### 6. Accident release measures

- 1) Personal precautions, protective equipment and emergency procedures
  - Avoid dust formation.
- 2) Environmental precautions
  - Try to prevent the material from entering drains or water courses.
- 3) Methods and materials for containment and cleaning up
  - Keep in suitable, closed containers for disposal.
  - Pick up and arrange disposal without creating dust.

# 7. Handling and storage

- 1) Precautions for safe handling
  - For personal protection see section 8.
  - Smoking, eating and drinking should be prohibited in the application area.
- 2) Conditions for safe storage (including any incompatibilities)
  - Please note that materials and conditions to be avoided.
  - Store in a dry place. Store in a closed container.

#### 8. Exposure controls & personal protection

- 1) Chemical exposure limits, Biological exposure standard
  - Contains no substances with occupational exposure limit values.
- 2) Appropriate engineering controls
  - Ensure adequate ventilation and exhaust ventilation at the workplace.
- 3) Personal protective equipment
  - Respiratory protection
    - If you have a direct contact or exposed to the material, wear the appropriate form of respiratory protection certified.
  - $^{\circ}$  Eye protection
    - If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.

• Hand protection

- Wear chemical safety gloves.
- Skin protection
  - Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

# 9. Physical and chemical information

Property name	Values	Source
Appearance		
Physical state	solid	
Color	Depends on customer needs	
Odor	odourless	
Odor threshold	Not applicable	
рН	Not applicable	
Melting point/freezing point	Not available	
Initial boiling point and boiling range(°C)	Not applicable	
Flash point(°C)	Not available	
Evaporation rate	Not applicable	
Flammability(solid, gas)	Not available	
Upper/lower flammability or explosive limits	Not applicable	
Vapour pressure	Not applicable	
Solubility(ies)	Insolubility	
Vapour density	Not applicable	
Relative density	Not available	
n-octanol/water partition coefficient	Not applicable	
Auto ignition temperature	Not available	
Decomposition temperature	Over 400°C	
Viscosity(mm²/s, 40°C)	Not applicable	
Molecular weight(mass)	Not available	
Density	Not available	
SAPT	Not available	
Specific gravity	1.3~1.5	

# 10. Stability and reactivity

- 1) Chemical stability and Possibility of hazardous reactions
  - No decomposition if stored and applied as directed.
  - Stable at normal ambient temperature and pressure.
- 2) Conditions to avoid
  - Follow precautionary advice and avoid incompatible materials and conditions
- 3) Incompatible materials
  - Combustible material
- 4) Hazardous decomposition products
  - This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regula

#### 11. Toxicological information

- 1) Information on the likely routes of exposure
  - No data available

#### 2) Health hazard information

- Acute toxicity
  - Acute toxicity(Oral) PRODUCT : Not classified
    - Glass, oxide
    - : LD50 >2000 mg/kg Species: Rat, (Route of administration: gavage, female/male, OECD TG 423, GLP)
  - Acute toxicity(Dermal) PRODUCT : Not classified
    - No data available
  - Acute toxicity(Inhalation:Gases) PRODUCT : Not classified
    - No data available
  - Acute toxicity(Inhalation:Vapours) PRODUCT : Not classified
    - No data available
  - Acute toxicity(Inhalation:Dust/mist) PRODUCT : Not classified
    - No data available
- $^{\circ}$  Skin corrosion/irritation  $\$  PRODUCT : Not classified
  - Glass, oxide
  - : Edema score: 0/0, fully recovered, no irritation, Rabbit, OECD TG 404
- Serious eye damage/eye irritation PRODUCT : Not classified
  - Glass, oxide
  - : No irritation, Human
- Respiratory sensitization
   PRODUCT : Not classified

- No data available

- ° Skin sensitization PRODUCT : Not classified
  - Glass, oxide
    - : no irritability
- Carcinogenicity PRODUCT : Not classified
  - Polycaprolactam
  - : 3 (IARC)
- Germ cell mutagenicity PRODUCT : Not classified
  - Glass, oxide
    - : in vitro Genotoxicity: positive (Chinese hamster Ovary (CHO))
- Reproductive toxicity PRODUCT : Not classified
  - No data available
- ° Specific target organ toxicity single exposure PRODUCT : Not classified
  - No data available
- Aspiration hazard PRODUCT : Not classified
  - No data available

#### 12. Ecological information

- 1) Ecotoxicity
  - Fish
    - Glass, oxide

: LC50 >1000 mg/ℓ 96 hr Danio rerio, (OECD TG 203, semi-static test ie all test media were changed every 24 hours, fresh water, GLP)

- Crustaceans
  - Glass, oxide
  - : NOEC ≥1000 mg/ℓ 3 day Daphnia magna, (OECD TG 202 , semi-static, fresh water, GLP)
- Aquatic algae
  - Glass, oxide
  - : NOEC ≥1000 mg/ℓ 3 day Pseudokirchneriella subcapitata, (OECD TG 201, semi-static formula, GLP)
- 2) Persistence and degradability

No data available

3) Bioaccumulative potential

No data available

4) Mobility in soil

No data available

- 5) Other adverse effects
  - No data available

# 13. Disposal considerations

- 1) Disposal methods
  - Empty containers should be taken to an approved waste handling site for recycling or disposal.
- 2) Precautions (including disposal of contaminated container of package)
  - Dispose of in accordance with local regulations.
  - Send to a licensed waste management company.

#### 14. Transport information

- 1) UN No. : Not applicable
- 2) Proper shipping name : Not applicable
- 3) Hazard class : Not applicable
- 4) Packing group : Not applicable
- 5) Marine pollutant : Not applicable
- 6) Special precautions for user related to transport or transportation measures :

Emergency measures in case of fire : Not applicable

Emergency measures in the effluent : Not applicable

- ADR
  - · Tunnel restriction code : Not applicable
- IMDG
  - · Marine pollutant : Not applicable
- Air transport(IATA)
  - · UN No. : Not applicable
  - · Proper shipping name : Not applicable
  - · Class or division : Not applicable
  - · Packing group : Not applicable
- Maritime transport in bulk according to IMO instruments :

Not applicable

#### 15. Regulatory information

Australia Industrial Chemicals Act

- Not applicable

China Inventory of Existing Chemical Substances (IECSC)

• Inventory - China - Inventory of Existing Chemical Substances (IECSC)

- Glass, oxide : Present [04789]
- Polycaprolactam : Present [25265]

92/32/EEC

- Not applicable

European Union Official Journal of the European Communities 15 June 1990 - Annex Based on Article 13 of Directive 67/548/EEC Amended by Directive 79/831/EEC

- Inventory European Union European Inventory of Existing Commercial Chemical Substances (EINECS)
- Glass, oxide : 266-046-0

Japan Law Concerning the Examination and Regulations of Manufacture, etc. of Chemical Substances

- Inventory Japan Existing and New Chemical Substances (ENCS)
- Polycaprolactam : (7)-357, (7)-382

New Zealand Environmental Protection Authority, Inventory of Chemicals

- Inventory New Zealand Inventory of Chemicals (NZIoC)
- Glass, oxide : May be used as a single component chemical under an appropriate group standard
- Polycaprolactam : May be used as a single component chemical under an appropriate group standard

Turkey Regulation on Inventory and Control of Chemicals

- Not applicable

Taiwan Chemical Substance Inventory

- Inventory Taiwan Taiwan Chemical Substance Inventory (TCSI)
- Glass, oxide : Present
- Polycaprolactam : Present

#### U.S. Toxic Substances Control Act

- Inventory United States Section 8(b) Inventory (TSCA)
- Glass, oxide : Present (ACTIVE)
- Polycaprolactam : Present [XU] (ACTIVE)

#### Vietnam National Chemicals Inventory (NCI)

- Inventory Vietnam National Chemicals Inventory (NCI) (DRAFT)
- Glass, oxide : Present 21278
- Polycaprolactam : Present 15902

# 16. Other information

#### 1) Reference

NCIS, KOSHA, Montreal Protocol, ECHA, OECD SIDS, EU IUCLID, HSDB(PubChem), NITE, NTP, ACGIH, IARC, NIOSH, ChemIDplus, EPA, EPI Suite, INCHEM

- 2) Issue date : 20-11-2023
- 3) Revision date
  - Revised date count : 2-3
  - Last revised date : 04-06-2024
- 4) Other

ACGIH : American Conference of Governmental Industrial Hygienists ADR : Agreement Concerning the International Carriage of Dangerous Goods by Road ATE : The Acute Toxicity Estimate ECHA : European Chemicals Agency EPA : United States Environmental Protection Agency EPI Suite : The Estimation Programs Interface for Windows EU IUCLID : International Uniform Chemical Information Database HSDB : Hazardous Substances Data Bank IARC : International Agency for Research on Cancer IATA : International Air Transport Association IMDG : International Maritime Dangerous Goods Codes **INCHEM : Internationally Peer Reviewed Chemical Safety Information** M-Factor : The Multiplication Factor NIOSH : National Institute of Occupational Safety and Health NITE : National Institute of Technology and Evaluation(JAPAN) NTP : National Toxicology Program SCL : Specific Concentration Limit OECD SIDS : Organization for Economic Co-operation and Development Screening Information Dataset