

Material Safety Data Sheet(MSDS)

POLYAMIDE 6 Resin

1. Product and Company Identification

- 1) Product Name : **DESLON™ DSC101R**
- 2) Recommended use of the chemical and restrictions on use

Recommended use of chemical

- Thermoplastic for injection molding

Restrictions on use

- Food, infant supplies and medical care can not be used

- 3) Manufacture/Supplier

Company: DESCO CO., LTD.

Address: 24, Gongdan-ro 9-gil, Waegwan-Eup, Chilgok-Gun, Kyeongbuk, Republic of Korea

Tel: +82-54-970-5861

2. Hazard Identification

- 1) Hazard Classification
- 2) GHS (Globally Harmonized System Classification and labeling of chemicals)
Pictographs: N/A
Hazard statements: N/A
Precautions: N/A
- 3) Hazard classification does not include other hazard (NFPA)
Health = 1, Fire = 1, Reactivity = 0

3. Composition & Information of ingredients.

<u>Chemical Nature</u>	<u>CAS No.</u>	<u>Composition(%)</u>
Polyamide 6	25038-54-4	>90

* It's not dangerous generally and a small quantity of addition and impurities aren't showed, but we can offer it for medical treatment.

Material Safety Data Sheet(MSDS)

POLYAMIDE 6 Resin

4. First-Aid Measures

- 1) Eye contact
 - Flush with plenty of water or physiology solution.
- 2) Skin contact
 - Get rid of polluted clothes, accessories and shoes. Wash off in soap or natural detergents using plenty of water.
- 3) Inhalation
 - From polluted place and inhale the fresh air.
- 4) Ingestion
 - No need of first-aid measures. Just vomit get medical attention if person became unconscious.
- 5) Note to physician and first-aid
 - No special antidote. Supportive therapy should be used according to symptoms.

5. Fire-Fighting Measures

- 1) Proper (and improper) fire extinguisher
 - Suitable: CO₂, water, powder, general foam
 - Not suitable: N/A
- 2) Specific hazards arising from the chemical
 - Irritant smoke may cause such as Carbon monoxide (CO), NO_x, Halides and etc.
- 3) Protective equipment and precautions for firefighting
 - In case of Fire, spray the fire extinguisher toward the ignition point after securing a safe distance
 - If you do not have fire extinguishers, sand for fire and fire hydrant may be used.
 - People around the fire evacuate to safe area.
 - During a fire, harmful gas can be caused by combustion and decomposition of substances.

6. Accidental Release Measures

- 1) Precautions and equipments for personal protection
 - Do not inhale dust and vapor during operation.
 - Immediate disposal to prevent risk of slipping.
- 2) Precaution for environmental protection
 - N/A
- 3) Purification or removal methods
 - According to Industrial Waste Disposal regulation, move to approved place.

Material Safety Data Sheet(MSDS)

POLYAMIDE 6 Resin

7. Handling and Storage

- 1) Safe handling
 - Storage and handling in accordance with regulations and the law in force.
- 2) Safe storage
 - Store in a dry place and away from incompatible materials.

8. Exposure Controls and Personal Protection

- 1) Standard of chemical exposure, standard of biological exposure and etc.
 - Internal regulations: N/A
 - ACGIH regulations: N/A
 - Standard of biological exposure
- 2) Appropriate engineering controls
 - It needs air exhauster which can remove dust and gas during work. If necessary, using a qualified mask for dust and organic solvents
- 3) Personal protective equipments
 - Respiratory Protection
 - The operator should wear a mask for anti-dust
 - Eye protection
 - Wear safety goggles and install an eye wash and emergency wash facilities.
 - Hand protection
 - Injection workers should wear gloves, arm guards, and heat-resisting equipment.
 - Body protection
 - After handling, wash clean

9. Physical / Chemical Property

- 1) Appearance: Specified color and granulate form
- 2) Smell: Nearly odorless
- 3) Threshold value: N/A
- 4) PH: Not applicable
- 5) Melting point/freezing point: 210~220°C
- 6) Boiling point/Boiling range: N/A
- 7) Flashing point: N/A
- 8) Evaporating rate: N/A
- 9) Flammability (solid, gas): N/A
- 10) Upper/lower bond of flammability or explosive: N/A

Material Safety Data Sheet(MSDS)

POLYAMIDE 6 Resin

- 11) Vapor Pressure: N/A
- 12) Solubility: Insolubility in water
- 13) Vapor pressure: N/A
- 14) Specific gravity: 1.10 ~ 1.20
- 15) n-Octane/water partition coefficient: N/A
- 16) Spontaneous ignition temperature: N/A
- 17) Pyrolysis temperature
- 18) Viscosity: N/A
- 19) Molecular weight: N/A

10. Stability and Reactivity

- 1) Chemical stability and the possibility of adverse reactions: stable under normal temperature· pressure
- 2) Conditions to avoid
 - Heat, flames, sparks and other sources of ignition
- 3) Substances to avoid
 - Acid, A base, An oxidizing agent
- 4) Harmful substances at decomposition
 - Toxic carbon compounds can be released

11. Toxicological Information

- 1) Information for exposed route with high possibility: N/A
- 2) Information for health hazard
 - Acute toxicity: N/A
 - Skin corrosiveness or irritation: N/A
 - Serious eye damage or irritation: N/A
 - Respiratory sensitization: N/A
 - Skin Sensitization: N/A
 - Carcinogenic: N/A
 - Mutagenicity: N/A
 - Particular target of toxicity (Single exposure)
 - Particular target of toxicity (Repeated exposure)
 - Inhalation Hazards: N/A

Material Safety Data Sheet(MSDS)

POLYAMIDE 6 Resin

12. Ecological information

- 1) Ecotoxicity: N/A
- 2) Persistence and degradability: N/A
- 3) Transferability in soil: N/A
- 4) Other adverse effects: N/A

13. Disposal considerations

- 1) Methods of disposal: Handle by precautions specified in the Wastes Control Act
- 2) Disposal Considerations: Handle by precautions specified in the Wastes Control Act

14. Transport information

- 1) UN number: N/A
- 2) UN Proper name of shipping: N/A
- 3) Hazard class of Transit: N/A
- 4) Container grade: N/A
- 5) Marine pollutants: N/A
- 6) Special Safety measures the user need or need to know about transportation or means of transportation
 - Emergency measures for fire: N/A
 - Emergency measures for Outflow: N/A

15. Mandatory control

- 1) Restriction by industrial safety and health act: N/A
- 2) Restriction by Toxic Chemicals Control Act: N/A
- 3) Restriction by Wastes Control Act: N/A

Material Safety Data Sheet(MSDS)

POLYAMIDE 6 Resin

- 4) Restriction by domestic and international law
Domestic restriction
-N/A
Foreign restriction
- American Management Information (OSHA regulation): N/A
- American Management Information (CERCLA regulation): N/A
- American Management Information (EPCRA 302 regulation): N/A
- American Management Information (EPCRA 304 regulation): N/A
- American Management Information (EPCRA 313 regulation): N/A
- American Management Information (Rotterdam Convention materials): N/A
- American Management Information (Stockholm Convention materials): N/A
- American Management Information (Montreal protocol materials): N/A
- EU classification information (Decided fractionation result): N/A
- EU classification information (Dangerous substance): N/A
- EU classification information (Safety notice): N/A

16. Other information

- 1) Source of data
This MSDS was edited from DESCO Co., Ltd. based on the data of Korea Industrial Safety Corporation according to Industrial Safety and Health Act of Article 41 and announced by Ministry of Labor Notice No. 96-12.
- 2) Creation date: 10th Jul. 2010
- 3) The number and final date of revision: 4times / 24th June. 2013
- 4) Others
This documentation was made out based on our piled up experience and knowledge of our R&D center. It is suggested that this information contained in this document can be used for General indication. Therefore, you should not construe it as product specifications, and you should do appropriate test before you considering your conditions for newly applications.