



國喬石油化學股份有限公司  
GRAND PACIFIC PETROCHEMICAL CORPORATION

SAFETY DATA SHEET

**Product:**

Adipic acid-Hexamethylene diamine resin

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Date: 01/01/2021

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**1. PRODUCT AND COMPANY IDENTIFICATION**

PHONE NUMBERS

Emergency Medical (24 HOUR)	886-7-3513911
Emergency Transportation / CHEMTREC (24 HOUR)	886-7-3513911
Other Emergency Information (24 HOUR)	886-7-3513911
Non-Emergency Information	886-7-3513911

Company:

HEAD OFFICE: 10FL, SEC.4 NAN-JING E.ROAD TAIPEI, 10595 TAIWAN R.O.C.

TEL: 886-2-8770-4567, FAX: 886-2-25458755

KAOHSIUNG PLANT: NO.4 HSING KUNG RD. TA-SHE INDUSTRIAL DISTRICT

KAOHSIUNG, 81567 TAIWAN. R.O.C.

TEL: 886-7-351-3911, FAX: 886-7-353-0313

PRODUCT IDENTIFICATION

PRODUCT IDENTIFIER : Adipic acid-Hexamethylene diamine resin

PRODUCT NAME : N200GP/N200GL/ N200SL/N200HF/N200FC/N200HV/N200GL BK/  
N200SL BK/F270BR/F250IY

PRODUCT USE : May be used to produce molded or extruded articles or as a component of other industrial products.

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**2. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

- Molten plastic can cause severe thermal burns.
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.
- The notes for storage and handling are considered. No specific dangers known.

HMIS Ratings : Health = 1; Flammability = 0; Reactivity-0,

**POTENTIAL HEALTH EFFECTS**

INGESTION : No hazard in normal industrial use.

SKIN ABSORPTION : No absorption hazard in normal industrial use.



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EYE CONTACT : No more than slightly irritating to eyes.

SKIN CONTACT : No more than slightly irritating to skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components listed below are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown.

<u>Component Name</u>	<u>%</u>	<u>CAS Number</u>	<u>ACGIH TWA</u>
Adipic acid-Hexamethylene diamine resin	>=98- <=100	32131-17-2	None

### 4. FIRST AID MEASURES

EYES : In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.

SKIN : In case of melt, wash affected skin area and clothing with water. Seek medical advice.

INHALE : In case of inhale, move to fresh air.

### 5. FIRE FIGHTING MEASURES

FIRE FIGHTING EQUIPMENT : Do not enter fire area without proper protection including self contained breathing apparatus. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

EXTINGUISHING MEDIA : Water spray and foam. Carbon dioxide and dry chemical.

HAZARDOUS COMBUSTION PRODUCTS : smoke, nitrogen oxides, carbon dioxide, carbon monoxide, ammonia, hydrogen cyanide

SPECIAL FIRE CONDITIONS : Other toxic substances are possible.

### 6. ACCIDENTAL RELEASE MEASURES

GENERAL : Must sweep up resin on the ground and remove to eliminate slipping hazard. Collect and discard in regular trash. Avoid the generation of dusts during clean-up. Allow molten material to solidify before disposal.



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### 7. HANDLING AND STORAGE

HANDLING : Protection against fire.

STORAGE : Store in a dry place. Seal up with aluminum when not to be used.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS : To process resin at high temperature, provide the good ventilation system. Local ventilation requirements must be determined to limit exposure to processing fumes in the workplace.

#### PERSONAL PROTECTION

EYE : Use safety glasses to avoid eye contact. In addition, use full face shield when cleaning processing fume condensates from hoods, ducts, and other surfaces.

SKIN : When handling molten resin , avoid prolonged or repeated contact with skin. Wear long pants, gloves long sleeves, well insulated gloves. Appropriate clothing-including chemical resistant gloves-should be worn to prevent contact with processing fumes condensate.

INHALED : When using this product at elevated temperatures, implement engineering systems, administrative controls, or a respiratory protection program (including a respirator approved for protection from organic vapors, acid gases, and particulate matter). If dust are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM : Granules

ODOR : Odorless

COLOR : Various, depending on the colourant

BOILING POINT : Not applicable

MELTING POINT : Approximate 260°C

FLASH POINT : > 400 °C

SPECIFIC GRAVITY : 1.10~1.20 g/cm<sup>3</sup>

SOIUBILITY IN WATER : Insoluble in water

VAPOR PRESSURE : None

VAPOR DENSITY : None



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### 10. STABILITY AND REACTIVITY

STABILITY : None as far ordinary storage and handling are concerned.

REACTIVITY : Net reactive under recommended conditions of handling, storage, processing and use.

CONDITIONS TO AVOID : Decomposition temperature  $> 310^{\circ}\text{C}$ , decomposition products nitrogen oxides, carbon dioxide, carbon monoxide, ammonia, hydrogen cyanide

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### 11. TOXICOLOGICAL INFORMATION

#### ACUTE HEALTH HAZARDS

EYE CONTACT : Products are not primarily considered eye irritant.

SKIN CONTACT : Products are not primarily considered skin irritant.

#### SUBCHRONIC HEALTH HAZARDS

SUBCHRONIC TOXICITY : No data available.

#### CHRONIC HEALTH HAZARDS

CARCINOGENIC

NTP : Not Tested.

OSHA : Not Regulated.

IARC : Not Listed.

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### 12. ECOLOGICAL INFORMATION

GENERAL : These materials are not expected to be harmful to aquatic organisms.

The product is insoluble in water, so it will not be bio-available.

Because of not to be Biodegradable, it just not be abandoned in water or ocean.

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### 13. DISPOSAL INFORMATION

WASTE DISPOSAL : Recycling is encouraged. Landfill or incinerate must be according to local regulations. Collected processing fumes condensates and incinerator ash should be tested to determine waste classification.

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### 14. TRANSPORTATION INFORMATION



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National regulations

ANTT

Not regulated as dangerous goods.

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods

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### 15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT(TSCA) :

The components of these products are in compliance with all rules and orders of TSCA.

WHMIS PRODUCT CLASSIFICATION : Not controlled products.

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### 16. OTHER INFORMATION

Prepared by : Product Stewardship

DISCLAIMER : This Safety Data Sheet [SDS] information is provided based on the Hazard Communication Regulations for your region or country and for the use of the persons required to receive this information under those regulations. The information is neither designed nor recommended for any other use or for use by any other person, including for compliance with other laws. Does not warrant the suitability for use of this SDS for any other material or product not specifically identified herein. Does not warrant the accuracy or authenticity of this SDS unless it has been obtained directly from GPPC, or posted or viewed on a website. Modification of this SDS, unless specifically authorized by GPPC, is strictly prohibited. This SDS is based on information which is believed to be reliable, but may be subject to change as new information becomes available. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. Since the use of this material is not under control, each user is responsible for making its own determination as to the safe and proper handling of this material in its own particular use of this material. GRAND PACIFIC PETROCHEMICAL CORPORATION MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING AS TO MERCHANTABILITY OR FITNESS FOR A



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PARTICULAR PURPOSE. Each user should read and understand this information and incorporate it into individual site safety programs as required by applicable hazard communication standards and regulations.