



# MATERIAL SAFETY DATA SHEET (MSDS)

Product NAME : NAN YA FR-PA66

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**6410G5 ALL COLOR PLASTIC PELLETS**

Date : 2004/12/19

## 1.IDENTIFICATION OF SUBSTANCE & THE COMPANY

CHEMICAL NAME : Polyhexamethylene Adipamide 66 (NYLON66)  
COMPANY IDENTIFICATION : NAN YA PLASTICS CORPORATION PLASTICS 4TH  
DIVISION ENGINEERING PLASTICS DEPARTMENT  
ADDRESS : 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN  
FAX : 886-2-27138248  
TELEPHONE NUMBER : 886-2-27122211-5814

## 2.COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE/PREPARATION : Preparation  
CHEMICAL NAME : Polyhexamethylene Adipamide 66 (NYLON66)  
SYNONYMS : Polyhexamethylene Adipamide 66 (NYLON66)  
INGREDIENTS AND COMPOSITION :

Component	Content ( % )	CAS No.
NYLON66	30~55	32131-17-2
NYLON6	0~25	25038-54-4
Lubricant	0.2~2	557-05-1
Flame retardant	5~25	88497-56-7
Synergist	2~20	1309-64-4
Short glassfibers	22~28	65997-17-3

## 3.HAZARDS IDENTIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Not applicable  
HUMAN HEALTH EFFECTS : Not applicable  
ENVIRONMENTAL EFFECTS : Not applicable  
PHYSICAL AND CHEMICAL HAZARDS : It is inflammable substance and combustible if any igniting source is existent. Neither dangerous reaction, fire nor explosion can be caused under normal condition.

## 4.FIRST-AID MEASURES

INGESTION : Help to vomit as much as possible. If sick feeling continues, and ask a physician for advice.  
INHALATION : When a gas generated from the molten polymer, especially fume



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- generated during combustion or heat, has been inhaled, remove fresh air without delay and wait until the victim is recovered. If sick felling continues, ask a physician for advice.
- SKIN CONTACT** : If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn.
- EYES CONTACT** : If polymer and a gas generated from the molten polymer contacts eyes, rapidly flushing eyes with running water for 15 mins.

## 5.FIRE-FIGHTING MEASURES

- EXTINGUISHING MEDIA** : Water, form fire-extinguishing agent, power fire-extinguishing agent, and carbon dioxide gas.
- SPECIFIC METHODS** : Extinguish the fire with water. A method of extinguish an ordinary fire may be applied. Do not apply water directly to processing machines.
- SPECIFIC HAZARDS** : Incomplete combustion leads to deneneration of toxic gases such as carbon monooxid or tereahydrofuran, in addition to carbonic acid gas and water.

### SPECIAL EQUIPMENT FOR THE PROTECTION OF FIREFIGHTERS :

In case the fire gained force, use a gas mask or other protective equipment.

## 6.ACCIDENTAL LEAKAGE MEASURES

- PERSONAL PRECAUTIONS** : When pellets were spilled on the road or floor, wipe them off with a besom or cleaner not to cause slipping
- ENVIRONMENTAL PRECAUSION** : Handle the spillage in accordance with provisions given in the” Resin pellet spillage preventive manual”, in order to prevent intakes by marine animals and birds.

## 7.HANDLING AND STORAGE

- HANDLING1** : This resin in a pellet form will neither ignite nor explode at room temperatures.
- HANDLING2** : For molding work, effective means for local exhaust are required to discharge gases generated by melt processing.
- HANDLING3** : Avoid inhaling of gases generated in molding work. Do not directly touch



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resin of high temperature.  
STORAGE : Keep the substance away from any fire or heat sources for the sake of safe storage.  
RECOMMENDED PACKAGING MATERIALS : No information.

## 8.EXPOSURE CONTROL/PERSONAL PROTECTION

CONTROL CONCNTRATION : None at present  
OERMISSIBLE CONCNTRATION : Max. permissible concentration of inactive power 15mg/m<sup>3</sup> -ditto-(Aspiration)5mg/m<sup>3</sup>.  
Exposure limit of the power TWA 10 mg/m<sup>3</sup>.  
ENGINEERING MEASURE : When handling dust :Use total encloses containers resisting dust explosion. When heat melted in molding: Effect local ventilation must be provided  
PERSONAL PROTECTIVE EQUIPMENT  
EYE PROTECTION : Wear protective glasses or goggles.  
RESPIRATORY PROTECTION : Wear a dust-proof mask.  
HAND PROTECTION : Wear heat-resisting gloves against burns, when handling molten polymer.  
SKIN & BODY PROTECTION : Wear long sleeve clothes against burns, when handling molten polymer.

## 9.PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Pellet  
BOILING POINT : Not applicable  
VAPOUR PRESSURE : Not applicable  
VOLATILITY : Not applicable  
SUBLIMATION : None  
MELTING POINT : 255~265°C  
DENSITY : 1.53~1.57  
SOLUBILITY : Insolube in water  
FLASH POINT : Not applicable  
IGNITION POINT : 400°C or higher  
EXPLOSION PROPERTY : Not applicable  
INFLAMMABILITY : None  
OXIDIZABILITY : None  
SELF-REACTIVITY : None  
DUST EXPLOSIVENESS



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Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

## 10. STABILITY AND REACTIVITY

STABILITY : Stable for normal storage or handling.

REACTIVITY : During molding, small amount of hazardous gases may be released. These may be irritating to the eyes, upper respiratory tract and lungs.

## 11. TOXICOLOGICAL INFORMATION

SKIN CORROSIVE OROPERTIES : No finding

SENSITIZING & IRRITANT EFFECTS : Gas generated in drying or melting is irritating eyes and skins.

ACUTE TOXICITY (LD50) : No finding

SUBSTANCE TOXICITY : No finding

CHRONIC TOXICITY : No finding

CARCINOGENECITY : No finding

MUTAGENECITY : No finding

PEPRODUCTIVE TOXICITY : No finding

TERATOGENICITY : No finding

OTHERS : No finding in this date sheet means that will be no hazard in general, but proving date available at the time of reporting.

OTHER CAUTIONS : With regard to dust, the maximum permissible concentration and limits are fixed by OSHA and AGGIH.

## 12. ECOLOGICAL INFORMATION

BIODEGRADABILITY : Not applicable

BIOACCUMULATION : Not applicable

FISH TOXICITY : Not applicable

OTHERS : Handle the spillage in accordance with provisions given in the "Resin pellet spillage preventive manual", in order to prevent intakes by marine animals and birds.



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## 13.DISPOSAL CONSIDERATION

WATER FORM RESIDUES : This is designated as waste plastics among industrial wastes by the Wastes Disposal Law. Disposal waste pellets through licensed wastes handlers or local autonomous bodies if they are handling wastes disposal.

## 14.TRANSPORT CONSIDERATION

UNCLASSIFICATION NUMBER : Not applicable

OTHER CAUTIONS : Handle with care as not to give damages to containers or not to be subjected to wetting.

## 15.REGULATORY INFORMATION

WASTE DISPOSAL LAW : Waste plastics among industrial wastes.

LAW CONCERNING REPORTING : ----

INDUSTRIAL SAFETY AND HEALTH LAW : ----

## 16.OTHER INFORMATION

HANDLING OF THE DETAILS GIVEN ABOVE :

The information in this Material Safety Data Sheet relates only to the specific material(s) designated herein and does not relate to use in combination with any other material or in any process.

WHERE TO CALL FOR FURTHER INFORMATION :

NAN YA PLASTICS CORPORATION PLASTICS 4TH DIVISION  
ENGINEERING PLASTICS DEPARTMENT

Tel : 886-2-27122211-5814