

MATERIAL SAFETY DATA SHEET

According to 91/155/EC

Product:
Msds No.: 04A0010

PA6-RG 1 5
Version 3.0

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Revision Date: 2005/02/16

01- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

| | |
|-------------------------|---|
| NAME OF THE PREPARATION | PA6-RG15 |
| SUPPLIER | GUANGZHOU KINGFA SCI.&TECH.CO.,LTD |
| ADDRESS | Gaotang Industry Zone, Tianhe District, Guangzhou, China, 510520 |
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| EMERGENCY TELEPHONE NO. | +86-20-87036220 |

02-COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|--------------------------------------|--------|-----------------|
| PA6(POLYAMIDE 6) | >45.5% | CAS: 25038-54-4 |
| FLAME RETARDANT | 23% | CA S: |
| GLASS FIBER | 15% | CA S: |
| OTHERS 0- | 1.5% | |
| IMPURITIES CONTRIBUTING TO HAZARD | NONE | |

03-HAZARDS IDENTIFICATION

| | |
|----------------------------------|--|
| HEALTH EFFECTS | Limited evidence of a carcinogenic effect Prolonged and /or repeated contacts: Risk of skin sensitization When handled at high temperatures, can cause serious burns |
| PHYSICAL AND CHEMICAL HAZARDS | Dust can form explosive mixture with air At high temperature thermal decomposition giving flammable and harmful products, formation of toxic products through combustion |
| SPECIFIC HAZARDS/EC | Limited evidence of a carcinogenic effect |

04-FIRST AID MEASURES

| | |
|--------------|---|
| EYE CONTACT | Cool eyes rapidly with plenty of cold water after contact with molten polymer and seek medical advice |
| SKIN CONTACT | Cool skin rapidly with plenty of cold water after contact with molten polymer and seek medical advice |
| INGESTION | If vomiting occurs, lower the head to ease vomiting and seek medical advice |
| INHALATION | Inhalation of vapors due to thermal decomposition: remove to fresh air, oxygen or artificial respiration if needed |

05-FIRE FIGHTING MEASURES

| | |
|----------------------|---|
| FLAMMABLE PROPERTIES | Flash point: Not determined Auto ignition temperature: Not determined |
| EXTINGUISHING MEDIA | Water spray, Dry powder, Carbon dioxide (CO ₂) |
| SPECIFIC HAZARDS | Above 300°C, possible formation of Styrene, Toluene, Ketones and Alcohols (small quantities) Formation of toxic products through combustion: Carbon oxides, |

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FIRE FIGHTING INSTRUCTIONS Hydrogen bromide
Keep people away , isolate fire area and deny unnecessary entry
Cool surroundings with water to localize fire zone
Handled carbon dioxide or dry chemical water to cool and prevent re-ignition

06-ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION Do not breathe vapors/dust
Sweep up to prevent hazard slipping

ENVIRONMENTAL PROTECTION Do not release into the environment
Do not let the product enter into drains

METHODS FOR CLEANING UP Recover the product
Recycle or incinerate at an approved waste disposal site

07-HANDLING AND STORAGE

HANDLING Prevent from fire around handling area.
Avoid accumulation of static charges during transfers in metallic systems, wear a mask to avoid dust formation

STORAGE Keep the materials at a cool dry place
Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area

08-EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS Ensure ventilation of work areas and extraction of dust or vapors likely to be given off during conversion operations

EXPOSURE LIMIT Not determined

PERSONAL PROTECTION EQUIPMENT

Eye protection Wear safety glasses for general purpose
Wear chemical goggles for cleaning molding machines

Hand protection Wear gloves (product handled in molten state)

Skin and body protection Wear protective clothing (product handled in molten state)

Respiratory protection In case of dust formation, wear a dust mask
In case of insufficient ventilation, wear suitable respiratory equipment

09-PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Solid (pellets)

COLOR Opaque

ODOUR Very faint

BOILING POINT/RANGE Not applicable

MELTING POINT 260°C

THERMAL DECOMPOSITION starts at about 350°C

VAPOUR PRESSURE Not applicable

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SOLUBILITY IN WATER Not soluble

SPECIFIC GRAVITY >1.0

10-STABILITY AND REACTIVITY

STABILITY Combustible gases are released at the temperature over 300°C

INCOMPATIBILITY S trong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS Combustion may produce carbon monoxide, hydrocarbons, hydrogen bromide and carbon dioxide

HAZARDOUS Will not occur

POLYMERIZATION

11-TOXICOLOGICAL INFORMATION

See section 3 for potential health effects. For detailed toxicological data, write or call the address or emergency number shown in section 1

12-ECOLOGICAL INFORMATION

To avoid being taken by ocean species or birds

To inhibit disposal of the waste to the ocean and water sources

13-DISPOSAL CONSIDERATIONS

Controlled in incineration or landfill according to local, state or national laws and regulations concerning health and pollution

Inadequate incineration may generate toxic gases such as CO, SM, HBr, C₂H₄, Benzene and Toluene

14-TRANSPORT INFORMATION

ADR/RID Not regulated

AND/ADNR Not regulated

IMDG Not regulated

IATA Not regulated

Consult KINGFA's safety department for any further information

15-REGULATORY INFORMATION

WEEE/ROHS DIRECTIVE CONFORMS

INVENTORIES EINECS (EU): Conforms

TSCA (USA): Conforms

DSL (Canada): Conforms

AICS (Australia): Conforms

ECL (Korea): Conforms

SAFETY DATA SHEETS D.91/155/EEC amended by D.93/112/EEC and D.2001/58/CE

16-OTHER INFORMATION

This message is based on our present knowledge. However this will not constitute a guarantee for any specific products features and should not establish a legally valid contractual relationship.

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