MATERIAL SAFETY DATA SHEET

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MATERIAL IDENTIFICATION

GRADE NAME	NAN YA PBT
	1400G3,1400G6,1403G3,1403G6,1403G9
	All Color
CHEMICAL NAME	Polybutylene terephthalate (PBT)
	With up to 45% short glass fibers and flame retardants and other additives such as lubricants, antioxidants, and less than 4% organic or inorganic pigments

PHYSICAL/CHEMICAL DATA

APPEARANCE	Cylindrical pellets
ODOR	None
MELTING POINT	220~229℃
SOLUBILITY IN WATER	Insoluble
VOLATILE CONTENT	Not applicable
SPECIFIC GRAVITY	1.30~1.79
DECOMPOSITION TEMPERATURE	> 280℃

HAZARDOUS INGREDIENT

MATERIAL NAME	Antimony oxide	Brominated polyaromatic
CONCENTRATION %	Proprietary	Proprietary
HAZARDOUS PROPERTY	Inhalation	Inhalation
TLV	0.5mg/m³ as antimony	Not established

FIRE AND EXPLOSION DATA

FLAME POINT	> 300°C
EXTINGUISHING MEDIA	In case of external fire, use Water-fog or foam
SPECIAL FIRE FIGHTING PROCEDURES	Cool drums from outside with water spray. Provide fire-fighters with self-contained breathing apparatus
UNUSUAL FIRE, EXPLOSION HAZARDS	None

HAZARDOUS REACTIVITY

MATERIAL TO AVOID	Do not intermix with other polymers such as polycarbonate, polyamide, etc., since under certain melt processing conditions they may react.		
CONDITIONS TO AVOID	Heating above 299℃		
HAZARDOUS DECOMPOSITION PRODUCTS	May include carbon monoxide, hydrogen bromide and terahydrofuran		

HEALTH HAZARD DATA

TOXICITY	LD	(oral, rat)	>5000mg/kg
ROUTES OF ENTRY AND SYMPTOMS:		•	
SKIN	Molt	en polymer v	vill cause thermal burns.
EYE	-	hanical irritar	
INHALATION	amor	unt of hazard er may be rel	rging and molding, small ous gases and/or particulate cased. These may be irritating respiratory tract and lungs.
EMERGENCY FIRST AID			

- If exposed to fumes from overheating, move to fresh air. Consult a physician if symptoms persist.
- Flush eyes with plenty of water. Get medical attention if irritation persist.
- If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn.

PROTECTION INFORMATION

SKIN	Protective gloves are required when handling hor polymer. Also long sleeve cotton shirt and long pants if handling molten polymer.	
EYE	Safety glasses recommended	
VENTILATION	Use adequate local exhaust ventilation during drying and melt processing.	

DISPOSAL

SPILL, LEAK OR RELEASE	Sweep up to prevent a slipping hazard.
WASTE DISPOSAL	Landfill in compliance with regulations. Incineration is not recommended since it will produce antimony compounds and hydrogen bromide with a glass fiber residue.
AQUATIC TOXICITY	No information is available, toxicity is expected to be low based on the insolubility of the polymer in water.
STORAGE CONDITIONS	Dry storage, keep containers tightly closed to prevent moisture absorption and contamination.

REMARK: 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.