

MATERIAL SAFETY DATA SHEET

HANWHA L & C CORPORATION

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SECTION I - IDENTIFICATION

PRODUCT NAME	TPU PMC	CHEMICAL NAME OR FAMILY	Thermoplastics Polyurethane Elastomer Compound (ADIPIC ACID-1.4BUTANEDIOL-HDI COPOLYMER, Ether Polyol-1.4BUTANEDIOL-HDI COPOLYMER)
FORMULA	Complex	TRADE NAME	HANWHA COMPOUND
DOT	Not Regulated by dot	DOT HAZARD	None
SHIPPING NAME		CLASS	

SECTION II - IMPORTANT COPMPONENTS

Thermoplastics Polyurethane Elastomer	95.0 ~ 98.0 %
Antioxidant & Additives	1.0 ~ 3.0%
Pigment	0.3 ~ 3.0 %

SECTION III - PHYSICAL DATA

BOILING POINT(F)	N.A.	SPECIFIC GRAVITY(H ₂ O-1)	1.05 ~ 1.20
VAPOR PRESSURE (mmHg)	N.A.	PERCENT VOLATILE BY VOLUME(%)	Negligible
VAPOR DENSITY (AIR-1)	N.A.	EVAPORATION RATE	N.A.
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Powder - Negligible odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION None FLASH POINT N.A.

EXTINGUISHING MEDIA

Regular dry chemical, Carbon dioxide, Water, Regular foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None Known.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

TLV For DUST : None are known.

EFFECTS OF OVEREXPOSURE

May be Irritating to skin or eyes.

Do not breathe dust; Wear a dust mask.

EMERGENCY AND FIRST AID PROCEDURES

Skin - Wash with soap and water

Eyes - Flush with water for over fifteen minutes

if ingested call a physician

SECTION VI - REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

INCOMPATIBILITY (MATERIALS TO AVOID)

Combustible materials, oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition products : oxides of carbon, nitrogen and other organic vapors

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep up and place in a closed container. Wear a dust mask if dust is created.

WASTE DISPOSAL METHOD

Incinerate in an approved incinerator or dispose of in a chemical
landfill in accordance with local, state and federal regulation.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Should be worn to prevent inhalation of dust or heated vapors.

VENTILATION

Local exhaust ventilation suggested if heated.

General ventilation suggested if dust is created.

PROTECTIVE GLOVES

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid inhalation of dust. Avoid prolonged or repeated skin contact.

Store away from heat, flame or oxidants.