

環境關理 物質 不使用 證明書

會社名 : 히로세코리아(주)

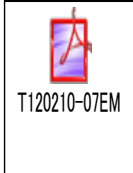

部 署 : 품질경영팀

責任者 : 차 재환 차장



貴社에 販賣하는 製品 및 製品의 使用材料, 包裝材, 製造工程에
 含有되는 添加劑 等に 對하여 貴社가 要求하는 管理水準
 (使用禁止對象)의 物質을 使用하고 있지 않음을 證明합니다.
 當社의 製品 및 製品의 使用材料, 包裝材, 製造工程에 含有되는
 添加劑 等に 對하여 以下の 成分으로 構成되어 있음을 報告 합니다.

(1) 製品 使用素材

NO	제품명	부품명	원자재명	원자재 MAKER	ICP	MSDS	비 고
1	MDF6-4DS-3.5C	HOUSING	PA	Not to declare	 T120210-07EM	 M080630-03EM	

(2) 測定可能物質의 ICP Data는 別紙 參照 要望

(3) 測定可能物質의 成分 分析 Data는 別紙 參照 要望

以上

Test Report

No. : CE/2012/21186

Date : 2012/02/13

Page: 1 of 7

HIROSE ELECTRIC CO., LTD.

6-3, NAKAGAWA CHUOH 2-CHOME, TSUZUKI-KU, YOKOHAMA-SHI 224-85, JAPAN



The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : RESIN
Supplier : Not to declare
Product Name : Not to declare
Color Type : NATURAL(WHITE)
Sample Receiving Date : 2012/02/06
Testing Period : 2012/02/06 TO 2012/02/10

Test Result(s) : Please refer to next page(s).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Report

No. : CE/2012/21186

Date : 2012/02/13

Page: 2 of 7

HIROSE ELECTRIC CO., LTD.

6-3, NAKAGAWA CHUOH 2-CHOME, TSUZUKI-KU, YOKOHAMA-SHI 224-85, JAPAN



Test Result(s)

PART NAME No.1 : WHITE PLASTIC

Test Item(s)	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs			-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs			-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

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Test Report

No. : CE/2012/21186

Date : 2012/02/13

Page: 3 of 7

HIROSE ELECTRIC CO., LTD.

6-3, NAKAGAWA CHUOH 2-CHOME, TSUZUKI-KU, YOKOHAMA-SHI 224-85, JAPAN



Test Item(s)	Unit	Method	MDL	Result
				No.1
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. This report supersedes the previous document bearing the test report number CE/2012/21186 which was issued on 2012/02/10.

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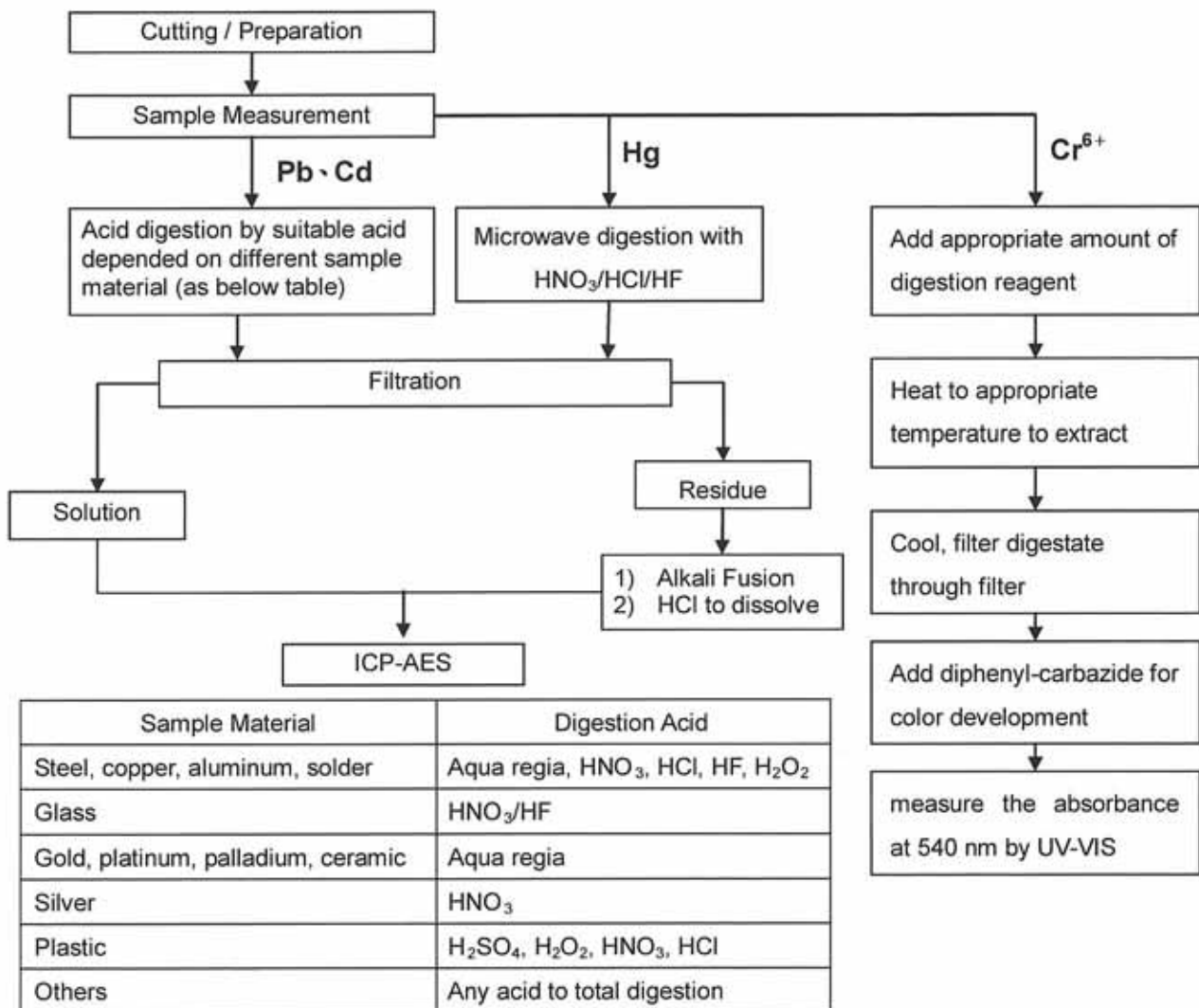
Page: 4 of 7

HIROSE ELECTRIC CO., LTD.

6-3, NAKAGAWA CHUOH 2-CHOME, TSUZUKI-KU, YOKOHAMA-SHI 224-85, JAPAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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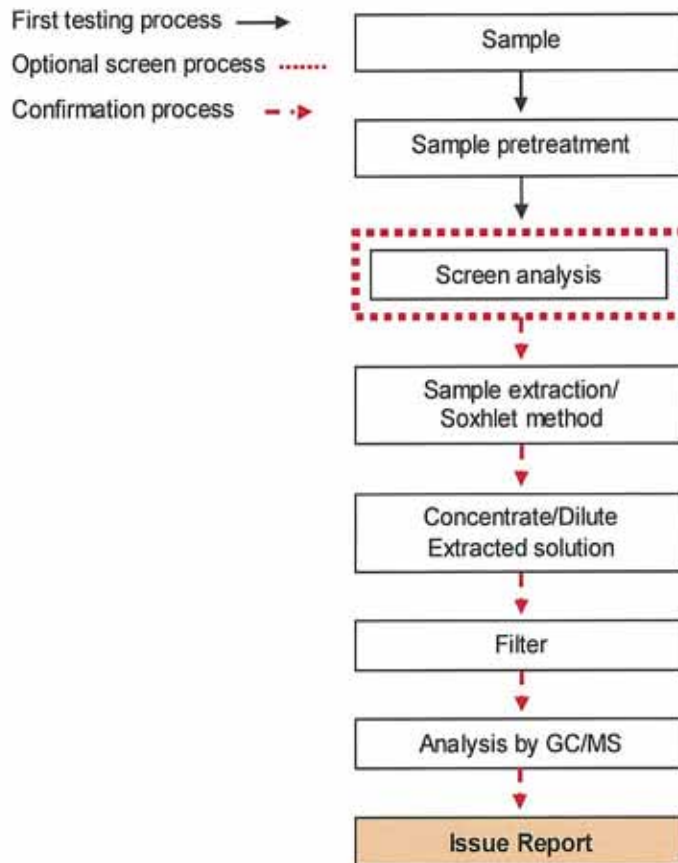
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6-3, NAKAGAWA CHUOH 2-CHOME, TSUZUKI-KU, YOKOHAMA-SHI 224-85, JAPAN



PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Troy Chang



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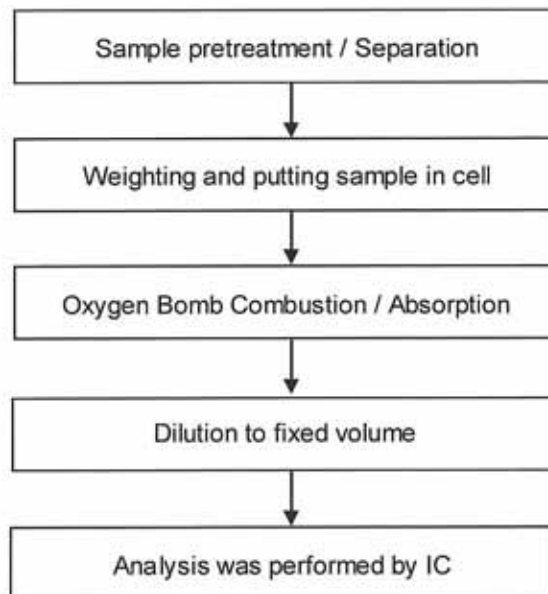
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6-3, NAKAGAWA CHUOH 2-CHOME, TSUZUKI-KU, YOKOHAMA-SHI 224-85, JAPAN



Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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Test Report

No. : CE/2012/21186

Date : 2012/02/13

Page: 7 of 7

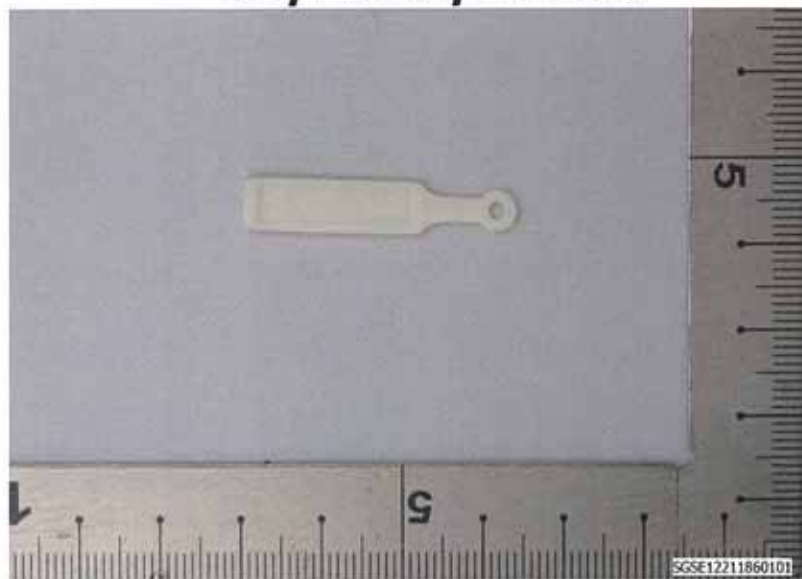
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6-3, NAKAGAWA CHUOH 2-CHOME, TSUZUKI-KU, YOKOHAMA-SHI 224-85, JAPAN



* The tested sample / part is marked by an arrow if it's shown on the photo. *

CE/2012/21186



** End of Report **

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MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name & Synonyms : [REDACTED]
 General Use : Polyamide for automotive parts, mechanical parts, electric and electronic parts.
 Product Description : Polyamide 66, Polyamide 66/6
 MSDS Number : LE-A004-01

MANUFACTURER

Company Name : Not to declare
 Address : Not to declare

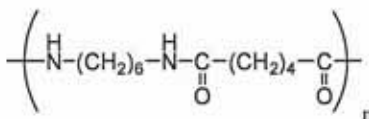
EMERGENCY TELEPHONE NUMBER:

Not to declare

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: [REDACTED]

Chemical Formula (main ingredient):



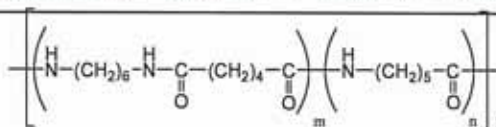
Product Name	Chemical Name	Wt%	CAS Registry No.
[REDACTED]	Polyhexamethylene adipamide	90 - 98	32131-17-2
	Flame Retardant (Non halide)	2 - 10	On TSCA Inventory
	Other Additives*	0 - 3	On TSCA Inventory
	Total	100	

* Light-Stabilizer, heat-stabilizer, Lubricant, colorant, etc. are added, in some grades. These additives except Carbon Black (CAS No. 133-86-4) and Titanium Dioxide (CAS No. 13463-67-7) are not hazardous by definition of Hazard Communication Standard. Carbon Black and Titanium Dioxide are hazardous ones.

Product Name: [REDACTED]

Chemical Formula (main ingredient):

MATERIAL SAFETY DATA SHEET



Product Name	Chemical Name	Wt%	CAS Registry No.
██████████	Polyhexamethylene adipamide/ Poly-ε-caprolactamamide copolymer	90 – 98	24993-04-2
	Flame Retardant (Non halide)	2 – 10	On TSCA Inventory
	Other Additives*	0 - 3	On TSCA Inventory
	Total	100	
██████████	Polyhexamethylene adipamide/ Poly-ε-caprolactamamide copolymer	67 – 90	24993-04-2
	Poly-ε-caprolactamamide	10 – 30	25038-54-4
	Flame Retardant (Non halide)	0.5 – 3	On TSCA Inventory
	Other Additives*	0 - 3	On TSCA Inventory
	Total	100	
██████████	Polyhexamethylene adipamide/ Poly-ε-caprolactamamide copolymer	85 – 95	24993-04-2
	Flame Retardant (Non halide)	5 – 15	On TSCA Inventory
	Other Additives*	0 - 3	On TSCA Inventory
	Total	100	
██████████	Polyhexamethylene adipamide/ Poly-ε-caprolactamamide copolymer	30 – 40	24993-04-2
	Polyhexamethylene adipamide	25 – 35	25038-54-4
	Flame Retardant (Non halide)	20 – 40	On TSCA Inventory
	Other Additives*	0 - 3	On TSCA Inventory
	Total	100	
██████████	Polyhexamethylene adipamide/ Poly-ε-caprolactamamide copolymer	65 – 75	24993-04-2
	Flame Retardant (Non halide)	25 – 35	On TSCA Inventory
	Other Additives*	0 - 3	On TSCA Inventory
	Total	100	

* Light-Stabilizer, heat-stabilizer, Lubricant, colorant, etc. are added, in some grades. These additives except Carbon Black (CAS No. 133-86-4) and Titanium Dioxide (CAS No. 13463-67-7) are not hazardous by definition of Hazard Communication Standard. Carbon Black and Titanium Dioxide are hazardous ones.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Solid pellet has slight or no odor. Spilled pellets create slipping hazard. Product may be flammable when exposed to contact flame or heat sources. When product burns, it creates dense toxic vapors, gases or fumes.

Note: Fumes produced during melt processing may cause eye, skin and respiratory tract irritation. Operations such as grinding, sanding or sawing, can produce dust which might cause an explosion or respiratory hazard.

MATERIAL SAFETY DATA SHEET

POTENTIAL HEALTH EFFECTS:

Inhalation: Pellets inhalation unlikely due to physical form

Inhalation of gas from molten resin may cause nausea.

Eye: Pellets may cause irritation or injury due to mechanical action

Skin: Pellets not likely to cause skin irritation

Contact with molten resin causes thermal burn.

Ingestion: Oral toxicity data is not established.

Small amount of swallowed incidentally during normal handling operations are not likely to cause injury; however, swallowing large amount may cause injury. Not acutely toxic.

Note: Carbon black, is added in some grades, is listed by Group 2B of IARC Cancer Review.

See 11. TOXICOLOGICAL INFORMATION

Certain sensitive materials or ingredients and individuals with respiratory impairments may be affected by exposure to components in processing fumes.

POTENTIAL ENVIRONMENTAL EFFECTS

Additives containing certain heavy metal compounds may present. These ingredients are encapsulated in the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

4. FIRST AID MEASURES

INHALATION: If inhalation of gas from molten resin causes nausea, remove the individual to fresh air and keep him at rest for recovery. If his condition does not improve, seek medical attention.

If inhalation of processing fumes causes irritation, leave contaminated area and breath fresh air. If coughing, difficult breathing or any other symptoms develop, seek medical attention at once, even if symptoms develop at later time.

EYE: If the material is in a molten state, immediately cool and wash with clean water for at least 15 minutes.

Remove contact lenses immediately if worn, unless they have adhered to eyes, and seek immediate medical attention.

SKIN: If the material is in a molten state, cool with clean water immediately. Do not forcibly remove any solidified resin stuck to the skin, but continue cooling until it becomes readily removable. Get medical attention for thermal burn. For skin contact with fume condensate, immediately wash affected area thoroughly with soap and water. If irritation develops, seek medical attention.

INGESTION: Induce vomiting only if the victim is conscious. In case of heavy ingestion, seek medical attention.

PROTECTION TO FIRST-AIDERS: Not applicable

NOTE TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point : Not applicable

Lower flammable limit : Not established

Upper flammable limit : Not established

Auto-ignition Temperature: ≥ 400 deg. C (≥ 725 deg. F)

MATERIAL SAFETY DATA SHEET

EXTINGUISHING MEDIA:

Water spray and foam. Water is the best extinguishing media. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.

FIRE FIGHTING INSTRUCTIONS:

Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is a preferred extinguishing media. This material will melt but will not be carried on the surface of water.

HAZARDOUS COMBUSTION PRODUCTS:

Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, a trace of HCN and NH₃.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: Spills over road or floor may cause slipping and falling; spilt pellets should be collected and disposed properly. (Method of disposal must be in compliance with 13. DISPOSAL CONSIDERATIONS)

WATER SPILL: spilt pellets should be collected and disposed properly. (Method of disposal must be in compliance with 13. DISPOSAL CONSIDERATIONS)

7. HANDLING AND STORAGE

HANDLING: Should process this product under the recommended temperature range.

Do not inhale gas during processing of the material.

Do not hold the material at high temperature over an extended time.

STORAGE: Store in dry place, away from excessive heat and ignition sources.

Avoid direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:

Particulates not otherwise classified

OSHA PEL	: 15 mg/m ³ (Total Dust)
	5 mg/m ³ (Respirable fraction)
ACGIH TLV-TWA (2005)	: 10 mg/m ³ (Inhalable particulate)
	3 mg/m ³ (Respirable particulate)

Carbon Black

OSHA PEL	: 3.5 mg/m ³
ACGIH TLV-TWA (2005)	: 3.5 mg/m ³

Titanium dioxide

OSHA PEL	: 15 mg/m ³ (Total Dust)
ACGIH TLV-TWA (2005)	: 10 mg/m ³

EXPOSURE CONTROLS

Occupational Exposure Controls

Engineering controls: In case where possibilities of dust formation, gas generation or vapor emission exist, provide local ventilation. Ventilation requirements must be locally determined to minimize

MATERIAL SAFETY DATA SHEET

exposure to materials at their point of use.

Personal Protection

Respiratory Protection: When processing fumes are not adequately controlled, use appropriate mask for protection from organic vapors and acid gases. When dust or powder from secondary operation, such as grinding, sanding or sawing, are not adequately controlled, use appropriate respirator for protection from dust.

Skin/Hand Protection : When handling pellets, avoid prolonged or repeated contact with skin. During processing, wear long pants, long sleeves, well insulated gloves and face shield. Use appropriate protective clothing, including chemical resistance gloves to prevent any contact with processing fume condensates.

Eye Protection : Wear safety glasses or chemical goggles while using or handling this material.

Environmental Exposure Controls

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid (Pellet shape)
Odor	: Slight odor
pH	: Not applicable
Boiling Point/Boiling Range	: Not applicable
Melting Point/Melting Range	: 240 – 270 deg. C (464 – 518 deg. F)
Decomposition Temperature	: above 300 deg. C (572 deg. F)
Flash Point	: above 400 deg. C (752 deg. F)
Auto Ignition Temperature:	above 400 deg. C (752 deg. F)
Flammability	: Flammable
Explosive Properties	: Potential dust explosion may exist.
Oxidizing Properties	: Stable at normal temperature
Vapor Pressure	: Not applicable
Specific gravity	: 1.1 – 1.8 g/cm ³
Solubility	: Insoluble in water

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperature above 340 deg. C (644 deg. F)

In order to avoid auto-ignition / hazardous decomposition of heat thick masses of plastic, purgings should be collected in small, flat shapes or thin strands to allow for rapid cooling in water.

STABILITY: Stable at normal temperature.

MATERIALS TO AVOID: Incompatible or can react with strong acids, oxidizing agents.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:

When ignited, hazardous vapors can be released, including carbon monoxide, carbon dioxide, ammonia, hydrogen cyanide, nitrogen oxide.

MATERIAL SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Not available.
Eye Irritation: Not considered primary eye irritant
Skin Irritation: Not considered primary skin irritant
Sensitization: Not considered primary skin irritant
Chronic Toxicity: Not available
Mutagenicity: Not available
Carcinogenicity: Carbon Black is listed by Group 2B of IARC Cancer Review and Titanium dioxide is listed by Group 3 of IARC Cancer Review

12. ECOLOGICAL INFORMATION

No information is available. Do not dump or discharge into ocean or any body of water, to avoid ingestion by marine life or birds.

13. DISPOSAL CONSIDERATIONS

Comply with all federal, state and local regulations.
Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION:

Not regulated in transportation by DOT/IMO/IATA
Note: Avoid water and careless handling to prevent damage of the container.

15. REGULATORY INFORMATION

OSHA STATUS: Hazardous under OSHA hazardous communication standard 29 CFR 1910.1200.
TSCA STATUS: on TSCA inventory
CERCLA REPORTABLE QUANTITY (40CFR117,302) : Not Established
SARA TITLE III
SECTION 302 (40 CFR 355) : None
SECTION 311/312 (40 CFR 370) : Not hazardous
SECTION 313 (40 CFR 372) : None
Please refer to any other federal, state and local regulations.

16. OTHER INFORMATION

<Notice & Warning>

- Do not use for the parts below.
- Medical vessels, packages, apparatus, parts which touch inside the human body, mucous membranes, body fluid, blood, and medicine
 - Containers, packages, and parts for food applications
 - Apparatus, parts which contact drinking water and beverages
 - Toys which may be sucked or may contact drinking water and beverages

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MATERIAL SAFETY DATA SHEET

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