Safety Data Sheet
According to Regulation (EC) No 1907/2006 (REACH)

PLUSTEK PB340S

Version: 3

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Trade name	PLUSTEK PB340S This SDS applies to all PLUSTEK PB340S grades which differ in reinforcing content ,stabilization package and color.
1.2 Use of the Substance/Preparation	Polyamide 6+GB May be used to produce molded or extruded articles or as a component of other industrial products.

1.3 Details of supplier of the safety data sheet

Company	Polyram Plastic Industries Ram On 19205 Israel
Telephone	++ (972) 4 6599900
Prepared by	Research and Development Department http://REACH@POLYRAM-GROUP.COM
1.4 Emergency number	++ (972) 4 6599999 8:00 A.M- 16:00 P.M

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

2.1.1
This substance is not classified according to US-GHS.
Classification (REGULATION 29 CFR 1910.1200)
This product is not considered to be a hazardous substance or mixture when classified in accordance with Regulation 29 CFR 1910.1200 (US GHS).

2.1.2 Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.1.3 Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling according to Regulation 29 CFR 1910.1200 (US GHS):

This substance is not classified according to US-GHS

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

May form combustible dust concentrations in air (during processing/handling). Spilled pellets present a slippinghazard on hard surfaces. Material can accumulate static charges which may cause an ignition.At elevate temperature, vapor may cause allergic respiratory reaction, irritation of eyes, skin and respiratory tract.Contact with molten material may cause thermal burns

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product definition (REACH) Preparation

3.1.2 Substances

3.2 Mixture

Chemical Name	CAS No.	Concentration	OSHA PEL
Additives and Polymer Stabilizer	CAS# Multiple	0 - 3% wt	Not Established
Carbon black (For Black Products)	1333-86-4	0 - 3% wt	3.5 mg/m3 TWA
Glass Beads	65997-17-3	10 - 50% wt	No PEL established

3.3 Additional information

The product may contain varying levels of additives such as slip and anti-blocking agents, carbon black, antioxidants and stabilizers. Within the present knowledge of the supplier this does not contain product no dangerous ingredients in quantities requiring reporting according to Regulation (EC) No. 1907/2006 or national regulations

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Remove from exposure, lie down. Never give anything by mouth to an unconscious person. No hazards which require special first aid measures If a person vomits when lying on his back, place him in the recovery
Skin contact	Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Obtain medical attention.

Eye Contact	Flush eyes with plenty of water. Get medical attention if irritation develops
Inhalation	Move to fresh air. Get medical attention irritation develops or persists

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available
Risks	No information available

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	No information available

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO2), dry powder, foam, water mist and water spray
Unsuitable extinguishing media	Do not use straight streams of water

5.2 Specific hazards arising from the substance or mixture

Specific hazards during fire fighting	Fire may cause evolution of hazardous gases produced may consist of:
5.3 Advice for fire-fighters	Wear self-contained breathing apparatus (SCBA) and protective
5.4 Further information	Assure an extended cooling down period to prevent re-ignition. Evacuate area. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. water must be disposed of in accordance local regulations Do not allow run-off from firefighting to enter drains or water courses.
-	Assure an extended cooling down period to prevent re-ignition. Evacuate area. Fire residues and contaminated fire

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear suitable protective equipment, ventilate the area. Refer to protective measures listed in sections 7 and 8

6.2 Environmental precautions	Try to prevent the material from entering drains or water courses. Do not contaminate surface water or sanitary sewer system
6.3 Methods for and materials for containment and cleaning up	
Methods for cleaning up	Clean up promptly by sweeping or vacuum.
Water Spill	Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Skim from
6.4 Reference to other sections	Refer to protective measures listed in sections 7 and 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precaution for safe handling

Advice on safe handling	Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. In case of insufficient ventilation, wear suitable respiratory equipment. When opening containers, avoid breathing vapors that may be emanating. Protect from contamination. For personal protection see section 8.
Advice on protection against fire and explosion	Take necessary action to avoid static electricity discharge Minimize dust generation and accumulation, Keep from contact with oxidizing materials

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep container tightly closed in a dry and well-ventilated place. Protect from contamination. Avoid excessive heat.
7.3 Specific end uses	Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

ε-caprolactam
EU OEL (Europe, 12/2009).
TWA: 10 mg/m³ 8 hour(s). Form: (dust and vapour)
STEL: 40 mg/m³ 15 minute(s). Form: (dust and vapour)

8.2 Exposure control

Appropriate Engineering Control	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Use adequate ventilation during heating processes, or if dusty conditions prevail when handling powdered materials. For storage and ordinary handling, general ventilation is adequate.
Personal protective equipment	
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult respirator manufacturer to determine appropriate type equipment for a given application.
Hand protection	Protective heat resistant gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Minimize skin contamination by following good industrial hygiene practice. If there Is potential contact with hot/molten material, wear heat resistant clothing and footwear. Regular cleaning of equipment, work area and clothing.
Hygiene measures	Do not eat or drink while processing the product; wash hands before breaks. Keep away from food and drink General precaution for all plastics and elastomers: Do not breathe fumes evolved from hot polymer.
Environmental Control	Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

Appearance	
Physical State	Solid
Color	Color depend on specific grade
MSDS Odor	Odorless

9.2 Other Safety Information

PH	NA
Melting point/range	215-225°C
Softening point/range	NA
Initial Boiling point/range	NA

Thermal decomposition	>380°C
Flash Point	NA
Ignition Temperature	NA
Vapour pressure (hPa)	NA
Vapour density (air=1)	NA
Specific Gravity/Density (20 °C)	1.15-1.55(g/cm3)
Bulk Density	NA
Solubility in Water (20 °C)	Negligible
Partition coefficient: noctanol/water	NA
Solubility in other solvents	NA
Relative vapour density	NA
Evaporation rate	NA

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No dangerous reaction known under conditions of normal use.
10.2 Chemical Stability	Stable under normal conditions.
10.3 Possibility of hazardous reaction	Hazardous polymerization does not occur
10.4 Conditions to avoid	Avoid heating for prolonged periods above the recommended upper processing limit. Heat, flames and sparks. Avoid dust formation and electrical charging
10.5 Incompatible materials	Strong acids and oxidizing agents.
10.6 Hazardous decomposition products	Carbon monoxide, Carbon dioxide other organic acids, Degradation products of the polymers and their additives may also be formed

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (Component)

Acute toxicity (Material)	Not classified due to lack of data
Carcinogenicity Assessment	Not classified due to lack of data
Mutagenicity Assessment	Not classified due to lack of data
Sensitization	Contact with the skin may result in mechanical irritation

Chronic effects for the product	Dust may be irritating to the eyes and respiratory tract. Generation of vapours at during processing or elevated temperatures might be irritating to the eyes and respiratory tract.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxical effects

12.2 Persistence and degradability	Not considered biodegradable
12.3 Bioaccumulative potential	Potential to bioaccumulate is low
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvP assessment	This mixture contains no substance considered to be persistent, bioaccumulation nor toxic (PBT)
12.6 Others adverse effect	No data available
12.7 Additional information	This product does not contain heavy metals

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	In accordance with local and national regulations
Packaging	Empty containers should be taken for local recycling or waste disposal.
Waste disposal consideration	Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. Do not contaminate ponds, waterways or ditches with chemical or used container. If recycling is not practicable, dispose of in compliance with local regulations.
Other Disposal considerations	The information offered here is for the product as shipped. Use and/or alteration to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA

SECTION 14: DISPOSAL CONSIDERATIONS

14.1 Land transport ADR/ RID	Not dangerous goods
14.2 Air transport IATA	Not dangerous goods
14.3 Sea transport IMDG	Not dangerous goods

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU regulation

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

Regulation (EC) No. 1907/2006 -Not applicable.

Labeling according to EC regulations:
The product does not require a hazard warning label in accordance with Regulation (EC) No. 1272/2008

15.1.2 U.S regulation

TSCA SCA (Toxic Substance Control Act)	The components of this product are either on the TSCA Inventory or exempt.
SARA Hazard Notification:	
Section 302 Extremely Hazardous Substances	None
Section 313 Toxic Chemical(s)	This Material is not subject to SARA 313 reporting requirements

15.2 Chemical safety assessment No data is available

SECTION 16: OTHER INFORMATION

Abbreviations
NA = not applicable, ND = not determined, NE = not established.

Caution do not use Polyram materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid or blood; or prolonged contact with mucous membranes. Polyram materials are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. Polyram will not provide to customers making devices for such applications any notice, certification or information necessary for such medical device use required by FDA regulation or any other statute. Polyram makes no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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Preparation date of SDS

Prepared by Product steward ship (Research and Development Department)

Phone Number of Preparer ++ (972) 4 6599990	
Revision Date	19 May 2019

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