AZPECTS HEALTH & SAFETY DATA

1. Identification of the material and the Company undertaking

Chemical name	:	**Polyethylene**
Designation or trade name	:	***EASY* Grid**
Commonly used synonyms	:	**HDPE**
Contact Details	:	**Azpects Ltd** **Unit 13 Riverside Industrial Estate** **Rapier Street** **Ipswich** **Suffolk** **IP2 8JX** **United Kingdom**
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2. Composition / information on ingredients

3. Hazards identification

Solid pellets with slight or no odour
Spilled pellets create slipping hazard
Can burn in fire creating dense smoke
Molten plastic causing severe thermal burns
Dust may be formed during cold processing (cutting, grinding, stamping etc)

4. First aid measures

Inhalation	:	***symptoms***	**trace dusts that may be present on the material can irritate the respiratory organs.**
	:	***first aid action***	**move the person from the contaminated area to fresh air.**
Skin contact	:	**Molten material can cause severe burns. Do not try to peel molten polymer from skin or attempt to remove with solvent. Cool rapidly with water. Seek medical advice. The product and its dust are not known to be irritant for the skin. Wash with soap and water.**	
Eye contact	:	***symptoms***	**dust can redden eyes**
		first aid action	**wash plentifully with clean water. If irritation remains, seek medical advice.**
Ingestion	:	**do not induce vomiting, no first aid measures, seek medical advice.**	

5. Fire-fighting measures

Suitable extinguishing media	:	**Water spray** **Foam** **Dry chemical** **CO_2**
Exposure hazards arising from the material itself, combustion products, resulting gases	:	**Rework of articles (e.g. grinding) can form potentially explosive dust clouds. Burning is accompanied by melting and dripping which may cause the fire to spread. Combustion or thermal decomposition may evolve irritant vapours. In complete combustion, the major products formed are carbon dioxide and water, with traces of hydo-carbons and aldehydes. Toxic fumes may be produced in a fire.**
Special protective equipment for fire-fighters	:	**Wear suitable protective clothing, with protection of the respiratory organs (self contained breathing apparatus).**

6. Accidental release measures

Collect mechanically. Re-use if possible or deplete according to the current regulations. Wear dust mask and other PPE as appropriate. Caution: Spillages will be slippery.

7. Handling & storage

Handling	:	**Follow good standard industrial hygiene practices. Apply adequate ventilation directly to outside air. Wear PPE as appropriate. Control dust formation. Avoid prolonged skin contact. Avoid contact with eyes.**
Storage	:	**Keep dry and away from sources of ignition, heat and sparks from flammable products. Avoid pellet spillage as a possible cause of slipping. Storage temperature: ambient. Storage life: can be stored for long periods without significant deterioration.**
Type of materials used in the packaging / containers.	:	**Product is usually put to the market in 25kg polyethylene bags, approximately 1000kg polypropylene 'big bags' or 500kg -1000kg paperboard container (octabin).**

8. Exposure controls /personal protection

Precautionary and engineering measures to be taken during use in order to minimise exposure.	:	**During processing, work areas must be adequately ventilated or fume removed via extraction systems. To minimise fire hazard regularly clean fume condensates from duct work.**
Personal protection	:	**Wear dust mask or respirator for duct / small particles.**
Eye / Face	:	**Wear safety glasses/goggles. Also use full face shield when cleaning condensates from hoods / vents.**
Skin	:	**When handling pellets avoid prolonged or repeated contact. Wear suitable PPE when handling molten plastic.**

9. Physical and Chemical properties

Appearance	:	**Solid pellets (approx 3mm diameter & length)**
Physical state	:	**Uncoloured, coloured or filled.**
Density	:	**0.905 - 1.50**
Odour	:	**None**
Melting point / Melting range	:	**140 - 185^{0}C**
Decomposition temperature	:	**Above 300^{0}C**
Autoignition temperature	:	**Above 330^{0}C**
Solubility in water	:	**Insoluble**
Solubility with other solvents	:	**Low - Polyethylene is resistant to many commonly used solvents.**

10. Stability and reactivity

The material is stable under normal handling and storage conditions.

Conditions to avoid	:	**Excessive heat and creating dust.**
Hazardous decomposition products	:	**When processed at unusually high temperatures, the product may evolve carbon monoxide, hydrocarbons and aldehydes.**

11. Toxicological information

The product is considered harmless to health if handed in accordance with good industrial hygiene.

Effects of exposure	:	***Eyes***	:	**Powder or dust may cause slight irritation.**
		Skin	:	**Repeated or prolonged skin contact may result in mild irritation.**
		Inhalation	:	**Powder or dust may cause some irritation.**
		Ingestion	:	**Highly unlikely under normal industrial use. Extremely low oral toxicity.**
		Chronic effects	:	**None known.**

12. Ecological information

Not expected to present any significant ecological problems.

13. Disposal considerations

Appropriate methods of disposal:

Recycling	:	**Material can be safely recycled itself or processed with fresh product when acceptable in the final application.**
Incineration	:	**Thermodestruction with energy is possible at suitable incineration facilities.**
Land filling	:	**To be avoided as much as possible. The material does not pose any harm for the landfill site nor can it pollute the groundwaters. Dispose of in accordance with local regulations.**

14. Transport information

UN number	**:**	**N/A**	**Not classified as hazardous for transport.**
Packing group classifications			
ADR / RID	***Class:***	***Item :***	***Label :***
Orange plate	**Hazard identification number**	**(Upper part)**	
	Hazard identification number	**(Lower part)**	
Tremcard	***TEC(R) No***	**:**	
IMO	***Class:***	***IMDG code page:***	***Label :***
IATA	***Class:***	***Identity number:***	***Label:***

15. Regulatory information

Not classified as hazardous for users.

16. Other information

Suppliers data sheet and other technical information was used in the production of this Health & Safety data sheet. No guarantee can be given as to the sufficiency of any safety measure contained in this document, nor can it be assumed that other additional measures may not be required under particular or exceptional circumstances.

Data and information contained in this Safety Data Sheet is based on our available knowledge at the last revision date. No guarantee can be given regarding the sufficiency of any safety measure contained in this document, nor can it be assumed that other or additional measures may not be required under particular or exceptional circumstances.