SAFETY DATA SHEET : HIGH IMPACT POLYSTYRENE (HIPS) AND CONDUCTIVE POLYSTYRENE (CPS)

COMPOSITION

Chemical Nature :	Preparation of : Polystyrene impact resistant, lubricants.
Hazardous ingredients :	None

POSSIBLE HAZARDS

None

FIRST AID MEASURES

If inhaled :	On Inhalation of decomposition products: Keep patient calm, remove fresh air, summon medical help.
On skin contact :	Areas affected by molten material should be quickly placed under running water.
On contact with eyes : water with eyelids held open.	Wash affected eyes for at least 15 minutes under running
On ingestion :	No special measures necessary.
Note to physician :	On inhalation of decomposition products : Treat according to symptoms (decontamination, vital functions), no known specific antidote.

FIRE FIGHTING MEASURES

Suitable extinguishing media :	Water, dry extinguishing media, foam.
Unsuitable extinguishing media for safety reasons :	None.
The following can be given off in a fire :	Carbon dioxide (CO_2) and steam. In addition small quantities of the following substances can be formed: carbon monoxide, monomers, other degradation products.
Special protective equipment :	In case of a fire, wear a self contained breathing apparatus.
Further information :	Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

HANDLING AND STORAGE

Handling :	Gaseous products of degradation can be given off if the product is greatly overheated: monomers, other degradation products. Avoid inhalation of vapour. Processing machines must be fitted with local exhaust ventilation. When the product is ground (chopped), dust explosion regulations should be noted. Protection against fire and explosion: No special measures necessary.
Storage :	Keep in a dry place.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters :	Styrene, CAS-No. 100-42-5 Buta-3, 3-diene, CAS-No. 106-99-0 Buta-1, 3-diene : According to animal experiments, the substance can be assumed to be carcinogenic. Given suitable ventilation, it can be assumed that the threshold limits will not be reached. Refer to the current edition of HSE Guidance Note EH 40 on occupational Exposure Limits (United Kingdom). This product should be considered when making any assessment under the UK Control of Substances hazardous to Health Regulations (COSHH), and amendments (United Kingdom).
Personal protective equipment :	Respiratory protection : if breathable dust is formed filter P1 (for solid particles) (DIN 3181). Eye protection : Safety glasses with free flowing granules.

PHYSICAL AND CHEMICAL PROPERTIES

Form :	Sheet.
Colour :	Various, depending on the shade.
Odour :	Faint specific odour.
Change in Physical state :	Softening point : Over 70°C DIN 53460 Ignition temperature : Over 400°C DIN 51794
Fire promoting properties :	None.

Density :	1.05 g/cm3 DIN 53479
Solubility in water :	Insoluble.
Solubility in other solvents :	Soluble in aromatic solvents.

STABILITY AND REACTIVITY

Conditions to avoid :	To avoid thermal decomposition, do not overheat. Starts to decompose at 300°C (approx.).
Possible thermal degradation products :	Monomers, other degradation products.

TOXICOLOGICAL INFORMATION

Acute toxicity :	No data available. Insoluble in water.

ECOLOGICAL INFORMATION

Elimination information :	No data available. Insoluble in water.
Behavior and environmental fate :	Due to the consistency of the product, and its insolubility in water, it will apparently not be biodegradable.

DISPOSAL CONSIDERATION

Product :	Must be dumped or incinerated in accordance with local regulations.
noted	The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be (United Kingdom).

TRANSPORT INFORMATION	Not classified as hazardous under transport regulations.

REGULATORY INFORMATION

Labelling according to EEC Directives :	Not subject to Labelling National legislation / regulations