

Material Safety Data Sheet / 01 A350



ISO9001, ISO14001, ISO45001
Certificate Ref: 11738

1 - Identification of Substance / Preparation Product Code:

Polyurethane foams are not considered to be hazardous products nor as mixtures of dangerous substances.

Product Code	A350
Manufacturer/Supplier	Advanced Seals & Gaskets Ltd
Address	Polymer Works Hope Street Dudley West Midlands DY2 8RS
Phone Number	+44 (0) 1384 252555
Fax Number	+44 (0) 1384 252373

2 - Safety Hazards

Auto ignition point	Between 370c to 427c	
Fire Hazard	The product is a combustible material and causes, when burning, intense heat and dense smoke. In a fire, decomposition products such as carbon black, carbon monoxide, carbon dioxide, gaseous hydrocarbons and nitrogen containing products can be generated in various concentrations depending on the combustion conditions.	Terms like "is flame retardant" or "contains flame retardant", is sometimes used to describe improved ignition resistance in small scale tests do not reflect hazards in large scale fire conditions
Melting point	The product has no melting point but will decompose into gaseous components	
Human protection in large fire	Fire-fighters should use self-contained breathing apparatus. Should the burning foam come in contact with skin, cool the burned area with water without removing the foam. In case of serious burns call a doctor immediately. In the event of persons inhaling combustion gases, they must be moved from the area and given swift medical attention	
Storage and Processing	In processing flexible PU Foams all prescriptions, directives and technical rules regarding the layout of workstations, machinery safety and workplace human protection must be observed.	Because of the fire risks associated with certain processing on block foam (e.g hot wire cutting, crumbling, flame lamination etc) it is advisable to seek expert guidance on fire precautions that need to be in place. Attention should be paid to the possibility to produce electrostatic charges during foam processing operations that may be dangerous
Extinguishing media	Water, Liquid Foam, Carbon Dioxide, Dry powder	

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3 - Toxicology data

Oral	There is no evidence that PU foam is toxic in case of ingestion. LD50 (oral-rats) > 5000 mg/kg
Skin contact	No adverse effects known following contact with PU foam
Inhalation	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10mg/m ³ 8-hour TWA of inhalable dust or 4 mg/m ³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels
Eye Contact	Dust particles can cause mechanical irritation. Rinse with water to remove dust
Microbiological Contamination	PU foam is sterile when manufactured

4- Protective measures in handling, storage and processing

Special protective equipment and clothing is not necessary when handling foam, since it does not irritate the skin, eyes or respiratory system, except in those processes where dust is produced.	
Ventilation	Provided there is adequate general ventilation, no special precautions are necessary for most handling and cutting processes
Ventilation during some operations	Local exhaust ventilation is necessary for some operations i.e where dust is produced from buffing, sawing or crumbling operations or where fumes are produced in flame laminating, thermo-forming or hot wire cutting
Storage	Store away from heat sources (match, cigarette, open fire, electrical heater...). UV rays may cause surface discoloration. This does not affect the physical properties of the foam. Store in compliance with safety standards established by local Authorities and specific requirements of Insurance Companies
Eye protection	Protective goggles should be worn for processes that generate dust
Protective clothing	Not required. In case of dust generating operations skin protective clothes and appropriate respiratory masks are recommended
Other measures	No specific measures are needed for fully cured PUR foam. Gloves should be used when handling fresh foam

5- Ecological information

Biodegradability	Dependent on the type of PU foam, the product is not degradable or degrades slowly
Additional ecological data:	In case of standard foam fire, the particles that fall in the water are harmless. They are sieved out of the water and/or disintegrated in the water treatment plant. Living organisms in the water are not endangered. PU foams do not contain Ozone depleting substances and are not produced using products regulated by Legislation

6 - Transport information

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Labelling	PU foam is not classified for conveyance or supply under the international Agreements on Carriage of Dangerous Goods. The product is not classified as hazardous for any mode of transportation under current EU/UN regulations
Measures	No special steps need to be taken for the transportation of PU foam

7 - Disposal considerations	
Production trim	Trim polyurethane foam and offcuts can usually be recycled by several methods, provided they are clean and sorted.
Post Consumer Waste	A major recycling option exists via rebonding if a series of technical and economic conditions are met. If recycling is not possible, scrap or post-consumer PU foam waste can be used for energy recovery or be disposed of at licensed landfill sites or by incineration under controlled conditions in agreement with EU and National regulatory provisions and following advice from the Local Waste Regulation Authority
Legislation	Under EU environmental legislation, there are no special requirements for the disposal of conventional PU foam.

8 - Disclaimer of liability	
The Local legislation is to be followed	
Change Control Date	Change
26/6/18	Created



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