

MATERIAL SAFETY DATA SHEET

(HYDRO SPONGE)



SECTION 1. MATERIAL IDENTIFICATION

PRODUCT NAME

HYDRO SPONGE

MATERIAL USED

Polyurethane flexible foam or PUR

MANUFACTURER'S NAME

SAKSHI INNOVATIONS PRIVATE LIMITED
Gurudwara Somasar Road, P.O. Sahnewal, Village TIBBA, Distt. LUDHIANA-141 120 (INDIA)

SECTION 2. COMPOSITION

COMPOSITION : Polyurethane polymer

CHEMICAL DESCRIPTION : Polyaddition product of isocyanates, polyether-/ polyester-polyols and water, controlled by catalysts, stabilizers and other substances, resulting in a cellular polyurethane-foam

SECTION 3. PHYSICAL PROPERTIES

PHYSICAL FORM / APPEARANCE : Cellular material with elastic properties

COLOUR : Varies

SPECIFIC GRAVITY : 10 - 300 kg/m³

SOLUBILITY IN WATER : Insoluble

ODOUR : None or mild odour

FLASH IGNITION POINT : between 315°C to 370°C

DECOMPOSITION TEMPERATURE : > 180°C

MELTING POINT : The product has no melting point but will decompose into gaseous components.

THERMAL ENERGY : 28.000 KJ/kg

STABILITY AND REACTIVITY : The product is stable at temperatures between -40°C and +100°C

SECTION 4. FIRE HAZARDS

AUTO-IGNITION POINT (ASTM D 1929) : Between 370°C and 427°C

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

SUITABLE FIRE EXTINGUISHERS : Water, carbon dioxide, dry powder, liquid foam

HUMAN PROTECTION AT 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 removed from the area and given swift medical attention.

FURTHER FIRE INFORMATION : Terms like „is flame retarded“ or „contains flame retardants“ are sometimes used to describe improved ignition resistance in smallscale tests and do not reflect hazards in large scale fire conditions

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 operations on block foam (e.g. hot-wire cutting, crumbing, 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

SECTION 5. TOXICOLOGICAL DATA

ORAL : There is no evidence that OU foam is toxic in case of ingestion. LD50 (oral rats) > 5.000 mg/kg

INHALATION : No adverse effect known by inhalation following contact with PU foam. In case of a conversion step in which foam material is grinded and foam dust particles can be generated a proper exhaustion of dust must be in place and/or PSP (personal safety protection) must be worn. Concentration in air equal to or greater than 10 mg/m³ 8-h TWA of inhalable dust not allowed.

SKIN CONTACT : No adverse effects known following contact with PU foam

EYE CONTACT : Dust particles can cause mechanical irritation. Rinse with water to remove dust

SECTION 6. PROTECTIVE MEASURES IN HANDLING, STORAGE AND PROCESSING

HANDLING FOAM : 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 operations.

VENTILATION DURING SOME OPERATIONS : Local exhaust ventilation is necessary for some operations i.e. where dust is produced from sawing, buffing or crumbing operations or where fumes are produced in flame laminating, thermoforming 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 by specific requirements of the insurance companies.

EYE PROTECTION : Protective goggles should be worn for processes which generate dust.

PROTECTIVE CLOTHING : Not required.
In case of dust generating operations skin protective clothes and appropriate respiratory masks are recommended.

SECTION 7. ECOLOGICAL INFORMATION

BIODEGRADABILITY : Depending on the type of PU foam, the product is not degradable or degrades slowly

ADDITIONAL ECOLOGICAL DATA : PU flexible foams do not contain Ozone depleting

SECTION 8. TRANSPORT INFORMATION

LABELING : Polyurethan-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 or UN regulations. In accordance with the existing directives for classification, packaging and labeling of substances and mixtures (1272/2008/EG), there is no labeling requirement.

MEASURES : No special steps need to be taken for the transportation of PU foam.

SECTION 9. DISPOSAL CONSIDERATION

PRODUCTION TRIM : Trim polyurethan foam and off-cuts can be usually be recycled by several methods unless the residues are clean and sorted

POST-CONSUMER WASTE : A major recycling option exists via re-bonding 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.

SECTION 10. REGULATORY INFORMATION

The relevant national and local laws must be observed.
This information is given without explicit or implicit warranty and is based on our knowledge at the time of publication. They do not represent warranted properties.

SECTION 11. OTHER INFORMATION

All information contained herein is based on the present state of our knowledge on the date of issue. It is believed to be accurate. It is intended to describe products from the point of view of safety requirements. It should not be construed as guaranteeing specific properties. Under no circumstances is the user exempt from respecting legislative or administrative requirements related to the product in terms of safety, hygiene, and/or health and environmental protection.

This MSDS was prepared and is to be used only for this product. If the product is used as a

REACH DECLARATION:-

Product is in compliance with substance of Very High Concern (SVHC) i.e. $\leq 0.1\%w/w$ as per the candidate list promulgated by the European Chemicals Agency (ECHA) which are defined in Article 57 of

REACH Regulation (EC1907/2006) checked by Tuv-Nord Group.