

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**RAVASAFE ZH TPU 85A R112M**

Revision date: 15.02.2022

Product code: 3448

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Thermoplastic Polyurethane

**Uses advised against**

Medical and food contact applications

**1.3. Details of the supplier of the safety data sheet**

Company name: Ravago Petrokimya Üretim A.S.  
Street: Çoraklar Mh. 5000 Sok. N:7-17 Aliaga Org.San.Bölg.  
Place: TR Aliaga / IZMIR (Turkey)  
Telephone: +90 850 314 70 99  
e-mail: semanur.yildiz@ravago.com / suleyman.gumus@ravago.com  
Contact person: Semanur YILDIZ / Suleyman Telephone: 0 850 314 70 99  
GUMUS  
e-mail: semanur.yildiz@ravago.com / suleyman.gumus@ravago.com  
Internet: www.ravagopetrokimya.com.tr

**1.4. Emergency telephone number:**

0 850 314 70 99  
Only during office hours ( 8 am - 5 pm )

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

This compound is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**2.2. Label elements****SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Flame Retardant TPU - Thermoplastic Polyurethane

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Supply fresh air or oxygen; call for doctor.

**After contact with skin**

Instantly wash with water and soap and rinse thoroughly.

**After contact with eyes**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

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**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**5.2. Special hazards arising from the substance or mixture**

Avoid sources of ignition : heat, sparks, open fire.

Hazardous combustion products

**5.3. Advice for firefighters**

Special protective equipment for firefighters

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General measures**

not determined

**6.2. Environmental precautions**

not determined

**6.3. Methods and material for containment and cleaning up****Other information**

not determined

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Take precautionary measures against static discharges.

Ensure good ventilation/exhaustion at the workplace.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in a cool dry place.

Keep container tightly closed.

**Further information on storage conditions**

Shelf-life: 2 years

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: solid , Granulate

Colour: various

Odour: odourless to mild

pH-Value: not applicable

**Changes in the physical state**

Softening point: &gt;120 °C

Flash point: ?

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Auto-ignition temperature:	?
Density (at 20 °C):	1.10-1.14 g/cm <sup>3</sup>
Bulk density (at 20 °C):	500-700 kg/m <sup>3</sup>
Water solubility:	not applicable
Partition coefficient n-octanol/water:	not applicable
Viscosity / dynamic:	not applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to instructions.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

No conditions to avoid anticipated.

**10.5. Incompatible materials**

No substances known that should be avoided.

**10.6. Hazardous decomposition products**Thermal decomposition : Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Hydrogen cyanide (hydrocyanic acid)  
Isocyanates Nitrogen oxides (NO<sub>x</sub>).**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****SECTION 12: Ecological information****12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

Poorly biodegradable.

**12.3. Bioaccumulative potential**

This material is not expected to bioaccumulate.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**SECTION 14: Transport information****Land transport (ADR/RID)****Other applicable information (land transport)**

Not classified for this transport carrier.

**Inland waterways transport (ADN)****Other applicable information (inland waterways transport)**

Not classified for this transport carrier.

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**Marine transport (IMDG)****Other applicable information (marine transport)**

Not classified for this transport carrier.

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

Not classified for this transport carrier.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information****SECTION 16: Other information**

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*