

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**RAVASAFE ZH TPU 90A C301M**

Revision date: 15.02.2022

Product code: 3446

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

RAVASAFE ZH TPU 90A C301M

**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**

Hazard categories:

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

May cause damage to organs through prolonged or repeated exposure.

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

**2.2. Label elements****Hazard components for labelling**

1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, compd. with 1,3,5-triazine-2,4,6-triamine (1:1)

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

Flame Retardant TPU - Thermoplastic Polyurethane

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
37640-57-6	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, compd. with 1,3,5-triazine-2,4,6-triamine (1:1)			11-16 %
	253-575-7		01-2119510711-53	
	STOT RE 2; H373			

Full text of H and EUH statements: see section 16.

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**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****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**

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**DNEL/DMEL values**

CAS No	Substance			
DNEL type	Exposure route		Effect	Value
37640-57-6	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, compd. with 1,3,5-triazine-2,4,6-triamine (1:1)			
Worker DNEL, long-term		inhalation	systemic	0,21 mg/m³

**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:	>120 °C
Flash point:	?
Auto-ignition temperature:	?
Density (at 20 °C):	1.14-1.18 g/cm³
Bulk density (at 20 °C):	500-700 kg/m³
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**

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**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.

**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****Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
STOT RE 2; H373	Calculation method

**Relevant H and EUH statements (number and full text)**

H373	May cause damage to kidneys through prolonged or repeated exposure by swallowing.
H373	May cause damage to organs through prolonged or repeated exposure.

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