

SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006, (EC) No.1272/2008 and (EU) No. 2015/830)

Product Name	ASCHEM GPPS	Date of issue	04.11.2015
		Date of revision	15.06.2020
Form Number	UR.PS-BF-GBF01-EN	Revision No.	6
		Page No.	1 / 8

SECTION 1: Identification of the substance/mixture and of the company / undertaking

1.1. Product Identifier

Substance Name	: Polystyrene (general purpose)
EC No.	: 500-008-9
CAS No.	: 9003-53-6
REACH Registration No.	: Polymers are exempt from REACH Registration. However, Styrene (CAS No. 100-42-5) which is the monomer of Polystyrene had been registered by our supplier with RRN of 01-2119457861-32-0020.
Standard Product Types	: GPPS500, GPPS525, GPPS530, GPPS535, GPPS560, GPPS560T, GPPS585, GPPS585E, GPPS590
Synonyms	: Styrene polymer, GPPS
Chemical Formula	: (C ₈ H ₈) _x

1.2. Relevant Identified Uses of The Substance and Uses Advised Against

Extrusion and injection molding

1.3. Details of The Supplier of the Safety Data Sheet

Name	: Aschem Petrokimya Sanayi A.Ş.
Address	: Adana Yumurtalık Serbest Bölgesi 01920 01355 Ceyhan, ADANA /TÜRKİYE
Phone	: +90 322 634 22 10
E-mail (competent person)	: gorkemg@aschem.com.tr
Web	: www.aschem.com.tr

1.4. Emergency Phone Numbers : +90 322 634 22 10 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the Substance

Substance is currently not listed in ANNEX VI of EU CLP Regulation No 1272/2008.

2.2. Label Elements

Substance is currently not listed in ANNEX VI of EU CLP Regulation No 1272/2008.

Signal Word

None

Pictograms

None

Hazard Class & Statement

None

Precautionary Statements

SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006, (EC) No.1272/2008 and (EU) No. 2015/830)

Product Name	ASCHEM GPPS	Date of issue	04.11.2015
		Date of revision	15.06.2020
Form Number	UR.PS-BF-GBF01-EN	Revision No.	6
		Page No.	2 / 8

-

2.3. Other Hazards

Possibility of explosion exists under dusty conditions.
Contact with hot material causes thermal skin burns.

SECTION 3: Composition / information on ingredients

Substances / Ingredient	Identifier	%	Classification (EC No. 1272/2008)
Polystyrene	RRN: Not available EC: Not available CAS: 9003-53-6	100	Not classified
Styrene (impurity)	CAS-No.) 100-42-5 (EC-No.) 202-851-5 (EC Index-No.) 601-026-00-0 (REACH-no):01-2119457861-32-0020	<0,05	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

SECTION 4: First aid measures

Skin Contact

Wash contaminated skin with plenty of water. Remove contaminated clothes and shoes. If symptoms persist, obtain medical attention.

Eye Contact

Wash with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

Remove to fresh air. Keep person warm and rest. Seek medical attention if breathing difficulties occur. If unconscious, place in recovery position, loosen tight clothing such as, collar, tie, belt, waistband etc. and get medical attention immediately.

Ingestion:

Wash out mouth with water. Removes dentures if any. Move exposed person to fresh air. Keep person warm and rest. If swallowed; Do not induce vomiting. Obtain medical attention immediately if ingested.

Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

Long term/delayed effects

SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006, (EC) No.1272/2008 and (EU) No. 2015/830)

Product Name	ASCHEM GPPS	Date of issue	04.11.2015
		Date of revision	15.06.2020
Form Number	UR.PS-BF-GBF01-EN	Revision No.	6
		Page No.	3 / 8

No specific information is available.

SECTION 5: Firefighting measures

5.1. Extinguishing Media

Suitable extinguishing media: Water spray, carbon dioxide, foam and dry powder.

Unsuitable extinguishing media: Water jet.

5.2. Special Hazards Arising from the Substance

May release carbon monoxide, carbon dioxide on combustion.

5.3. Advice for Firefighters

Firefighters should wear complete protective clothing including self-contained breathing apparatus. Keep personnel removed from and upwind of fire. Keep containers cool by spraying water if exposed to fire.

SECTION 6: Accidental release measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Spilling product may be slippery.

Fine dust clouds may form explosive mixtures with air.

Containers should be grounded. Produces flammable vapors on heating above melting point.

Take precautionary measures against static discharges.

Provide adequate ventilation.

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Avoid dispersal of spilled material and run-off to contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

6.3. Methods for cleaning up

Small spillages: Move containers from spilled area. Vacuum or sweep up material and place in a designated, labelled waste container.

Dispose of via a licensed waste disposal contractor.

Large spillages: Move containers from spilled area. Avoid from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

6.4. Further information: See also Section 8 & 13.

SECTION 7: Handling and storage

7.1. Precautions for Safe Handling

Provide adequate ventilation, including appropriate local extraction.

Avoid formation of dust. Do not breath dust.

SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006, (EC) No.1272/2008 and (EU) No. 2015/830)

Product Name	ASCHEM GPPS	Date of issue	04.11.2015
		Date of revision	15.06.2020
Form Number	UR.PS-BF-GBF01-EN	Revision No.	6
		Page No.	4 / 8

Put on appropriate personal protective equipment (see Section 8).

Do not eat, drink or smoke when using this product.

Wash hands before eating, drinking and smoking.

Avoid contact with eyes, skin and clothing.

Keep in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use.

Ground all equipment containing material.

Take precautionary measures against static discharges. Ensure adequate grounding.

Avoid release to environment. In case of disposal, consider local-national regulations.

7.2. Conditions for Safe Storage, including any incompatibilities

Store in an original container -protected from direct sunlight- in a dry, cool and well-ventilated area.

Keep away from incompatible materials (see Section 10).

Keep away from food and drink.

Keep container tightly closed and sealed until ready for use.

Opened containers should be carefully handled and kept upright to prevent leakage.

Do not store in an unlabeled containers.

Use appropriate containment to avoid environmental contamination.

Never stack pallets more than two high to prevent the risk of falling over.

7.3. Specific End Use

Extrusion and injection molding

SECTION 8: Exposure controls/personal protection

8.1. Control Parameters

Not specific data available.

8.2. Exposure controls

Engineering controls:

Local well-ventilation is recommended.

Individual Protection Measures

- **Eye/Face Protection**

Safety eyewear with side-shields is recommended (EN 166).

- **Skin Protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Wear suitable gloves (EN 374). Breakthrough time of the glove material; refer to the information provided by the gloves' producer.

Wear suitable protective clothing.

Use an antistatic safety shoes/boots.

SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006, (EC) No.1272/2008 and (EU) No. 2015/830)

Product Name	ASCHEM GPPS	Date of issue	04.11.2015
		Date of revision	15.06.2020
Form Number	UR.PS-BF-GBF01-EN	Revision No.	6
		Page No.	5 / 8

When handling hot material, wear heat resistant protective gloves, clothing and face shield which are able to withstand the temperature of the molten product.

- **Respiratory protection**

If there is dust formation/accumulation during transport and/or process, usage of approved dust mask is recommended.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene measures

- Do not eat, drink or smoke while using.
- Wash hands before breaks and at the end of workday.
- Solvents should never be used as hand cleaner.
- Work area, equipment and clothing should be cleaned regularly.
- Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: Physical and chemical properties

Appearance	: Solid
Form/Color	: Granular solid/Colorless
Odour	: No
pH	: Not applicable
Boiling Point	: No data available
Melting Point	: 240 °C
Flash Point (closed cup)	: > 260 °C
Auto-ignition temperature	: > 425 °C
Relative Density	: 1.04 – 1.65 g/cm ³ (at 20 °C)
Upper explosive limit	: No data available
Lower explosive limit	: No data available
Solubility in water	: Insoluble
Vapour density (air: 1)	: No data available
Dispersion coefficient (n-octanol/water)	: No data available
Explosive properties	: Containers should be grounded. Yields flammable vapours on heating above melting point.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Stable under normal usage and storage conditions.

10.2. Chemical Stability

SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006, (EC) No.1272/2008 and (EU) No. 2015/830)

Product Name	ASCHEM GPPS	Date of issue	04.11.2015
		Date of revision	15.06.2020
Form Number	UR.PS-BF-GBF01-EN	Revision No.	6
		Page No.	6 / 8

Stable under normal usage and storage conditions.

10.3. Possibility of Hazardous Reactions

No specific data.

10.4. Conditions to avoid

No specific data

10.5. Incompatible Materials

No specific data

10.6. Hazardous decomposition products

May release carbon monoxide, carbon dioxide on combustion.

SECTION 11: Toxicological information

Potential acute health effects:

No known significant effects or critical hazards.

Potential chronic health effects:

There is no published data on effects of carcinogenicity, mutagenicity and productivity.

SECTION 12: Ecological information

12.1. Toxicity

No data

12.2. Persistence and Degradability

Polymer is considered to be non-biodegradable.

12.3. 12.3. Bioaccumulative potential:

No data

12.4. Mobility in soil:

No data

12.5. PBT and vPvB Assessments:

No data

12.6. Other Adverse Effects:

None

SECTION 13: Disposal considerations

Should be disposed according to local or national regulations.

SECTION 14: Transport Information

Not classified as dangerous good compared with UN, EC, IATA or any other derived organization regulations.

SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006, (EC) No.1272/2008 and (EU) No. 2015/830)

Product Name	ASCHEM GPPS	Date of issue	04.11.2015
		Date of revision	15.06.2020
Form Number	UR.PS-BF-GBF01-EN	Revision No.	6
		Page No.	7 / 8

14.1. Roadway and Railway Transport (ADR/RID):

not regulated

14.2. Seaway Transport (IMO/IMDG):

not regulated

14.3. Airway Transport (ICAO/IATA): not regulated

14.4. Special Precautions:

n/a

SECTION 15: Regulatory information

- Substance non classified according to 1272/2008/EC
- Substance non classified according to Directive 67/548/EEC

SECTION 16: Other information

Used Abbreviations

- LTEL** : Long Term Exposure Limit
STEL : Short Term Exposure Limit
PBT : Persistent, Bioaccumulative and Toxic
vPvB : very Persistent very Bioaccumulative

Revision 1: - This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010.

Revision 2: - A statement for REACH Registration no has been added to Section 1.1. Statement is "Polymers are exempt from REACH Registration. However, Styrene (CAS No. 100-42-5) which is the monomer of Polystyrene had been registered by our supplier with RRN of 01-2119457861-32-0020"

- GPPS 585E was also identified as Standard Product Types in Section 1.1

Revision 3: - E-mail of competent person has changed.

Revision 4: - Form number has changed.

Revision 5: - Section 1, Item 1.1 **GPPS530** Grade has been added.

Revision 6: - Section 1, Item 1.1 **GPPS590** Grade has been added.

Disclaimer

Refer to the appropriate ASCHEM's bulletins for specific processing guidance and good manufacturing practices (purging, processing parameters, shutdown, etc.).

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist.



SAFETY DATA SHEET

(According to Regulation (EC) No. 1907/2006, (EC) No.1272/2008 and (EU) No. 2015/830)

Product Name	ASCHEM GPPS	Date of issue	04.11.2015
		Date of revision	15.06.2020
Form Number	UR.PS-BF-GBF01-EN	Revision No.	6
		Page No.	8 / 8

Aschem makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

Annex to the extended Safety Data Sheet (eSDS)

No information available.

Prepared by: Görkem GEZEK

Approved by: Dr. Ahmet R. ÖZKAN