

Polystyrene AM HMPA

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

1.1 Product identifiers

Product Name	Polystyrene AM HMPA
Product Number	H10015
Brand	Rapp Polymere
Synonyms	4-(Hydroxymethyl)benzoic acid on Aminomethyl Polystyrene
CAS Number	Not available
Reach Number	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory chemicals, manufacture of substances, chemical synthesis, peptide synthesis
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1.3 Details of the supplier of the safety data sheet

Company	Rapp Polymere GmbH Ernst-Simon-Strasse 9 D-72072 Tübingen
Telephone	+49 (0)7071763157
Fax	+49 (0)7071763158
E-mail address	support@rapp-polymere.com

1.4 Emergency telephone

0800 181 7059 (CHEMTREC Deutschland)
+49 (0)696 43508409 (CHEMTREC world wide)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram	none
Signal Word	none
Hazard statement(s)	none
Precautionary statement(s)	none
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

Section 3: Composition/information on ingredients

3.1 Substances

Name of substance, percentage	Polystyrene AM HMPA, 100%
CAS Number	Not available

Section 4: First aid measures

4.1 Description of first aid measures

General notes	Take off contaminated clothing.
Following inhalation	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
Following skin contact	Rinse skin with soap and water/shower.
Following eye contact	Rinse cautiously with water for several minutes.
Following ingestion	Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

5.2 Special hazards arising from the substance or mixture

Compound is combustible.

Hazardous combustion products Carbon monoxide (CO), Carbon dioxide (CO₂),
Nitrogen Oxides (NO_x)

5.3 Advice for firefighters

Coordinate firefighting measures to the fire surroundings. In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid inhaling dusts. Clear the danger zone, proceed according to the emergency plan, call in experts. For personal protective equipment see section 8.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill Covering of drains. Take up mechanically.
Advice on how to clean up a spill Take up mechanically.
Other information relating to spills and releases: Place in appropriate containers for disposal. Avoid dust development.

6.4 Reference to other sections

Hazardous combustion products see section 5. Personal protective equipment: see section 8. Incompatible
materials see section 10. Disposal considerations: see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion Provide appropriate exhaust ventilation at places where dust is formed. No special measures are necessary.
Advice on general occupational hygiene Keep away from food, drink and animal feeding stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Protect from sunlight. Moisture sensitive.

Incompatible substances or mixtures	Not known. Observe hints for combined storage.
Storage	Recommended storage temperature: 4 – 8 ° C or lower, in closed container away from sunlight. Moisture sensitive.

7.3 Specific end use(s)

No information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

National limit values	Not available
Occupational exposure limit values (Workplace Exposure Limits)	Not available
Relevant DNELs and other threshold levels	Not available
Relevant PNECs and other threshold levels	Not available

8.2 Exposure controls

Individual protection measures

Eye/face	Use safety goggle with side protection.
Skin/hand	Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN374. Nitrile rubber (NBR), 0.11 mm thickness, permeation level 6 (480 min). Take recovery periods for skin regeneration. Preventive skin protection (creams) is recommended.
Respiratory system	Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, color code: White).
Environmental Exposure	Keep away from drains, surface and ground water.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Color	White to slightly yellow/beige
Odor	Not available
Melting point/freezing point	Not available
Boiling point or range	Not available
Flammability	Not available
Lower and upper explosion limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH (value) DIN 19268	Not available
Kinematic viscosity	Not available
Dynamic viscosity	Not available
Water solubility	Not available
Partition coefficient n-octanol/water (log value)	Not available
Soil organic carbon/water (log KOC)	Not available
Vapor pressure	Not available
Density	Not available
Relative vapor density	Not available
Bulk density	Not available
Particle characteristics	Not available
Oxidizing properties	Not available

9.2 Other information

Not available

Section 10: Stability and reactivity

10.1 Reactivity	The enrichment of fine dust leads to the danger of dust explosion.
10.2 Chemical stability	Stable under recommended storage conditions, see 7.2.
10.3 Possibility of hazardous reactions	Not available

10.4 Conditions to avoid	Keep away from heat and sunlight. See section 10.2
10.5 Incompatible materials	Not available
10.6 Hazardous decomposition products	Hazardous combustion products: see section 5. Otherwise: toxic oxides of nitrogen and carbon may evolve when heated to decomposition.

Section 11: Toxicological Information

11.1 Information on toxicological effects

Classification acc. to GHS	This substance does not meet the criteria for classification.
Acute toxicity	Not available
Skin corrosion/ irritation	Not available
Serious eye damage/eye irritation	Not available
Respiratory or skin sensitization	Not available
Germ cell mutagenicity	Not available
Carcinogenicity	Not available
Reproductive toxicity	Not available
Specific target organ toxicity - single exposure	Not available
Specific target organ toxicity - repeated exposure	Not available
Aspiration hazard	Not available
11.2 Endocrine disrupting properties	Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
11.3 Information on other hazards	Not available

Section 12: Ecological Information

12.1 Toxicity

Not available

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Not available

Section 13: Disposal considerations

13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal

Do not empty into drains.

Waste treatment of containers/ packaging

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

Section 14: Transport information

14.1 UN number or ID number

Not regulated

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No

14.6 Special precautions for user

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Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. Relevant provisions of the European Union (EU)

Seveso Directive	Not assigned
Deco-Paint Directive	VOC content 0%
Industrial Emissions Directive (IED)	VOC content 0%
RoHS, PRTR, WFD, ODS, PIC, POP, GB, SVHC	Substance not listed

Other information

AIIC, DSL, IECSC, ECSI, REACH Reg, Substance not listed
 CSCL-ENCS, KECI, NZIoC, PICCS,
 CICR, TCSI, TSCA, NCI

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

Section 16: Other information

Indication of changes. Revision of safety data sheet.

New document

Abbreviations and acronyms

ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
AIIC	Australian Inventory of Industrial Chemicals
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested

EC No	substance causing 50 % changes in response (e.g. on growth) during a specified time interval The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ECSI	EC Substance Inventory
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
IMDG	International Maritime Dangerous Goods Code
KECI	Korea Existing Chemicals Inventory
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NCI	National Chemical Inventory
NLP	No-Longer Polymer
NZIoC	New Zealand Inventory of Chemicals
PBT	Persistent, Bioaccumulative and Toxic

PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
REACH Reg.	REACH registered substances
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Further information

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