

ASTC Polymers
Santa Ana, CA 92704

Date printed 03.09.2015, Revision 03.09.2015

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

1.1 Product identifier

PenMend 4034 Part B

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

1.2.1 Relevant uses

Fillers
Repair

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company ASTC Polymers
3207 West Warner Ave.
Santa Ana, CA 92704 / USA
Phone +1 714.966.2893
Fax +1 714.966.9105
Homepage www.astcpolymers.com
E-mail info@astcpolymers.com

Address enquiries to

Technical information info@astcpolymers.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +1 714-552-6915 & +1 714-803-1274

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 4: H227 Combustible Liquid.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
Carc. 2: H351 Suspected of causing cancer.
STOT SE 3: H336 May cause drowsiness or dizziness.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Hazard statements

H227 Combustible Liquid.
H304 May be fatal if swallowed and enters airways.
H351 Suspected of causing cancer.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours / spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P331 Do NOT induce vomiting.
P308+P313 IF exposed or concerned: Get medical advice / attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

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2.3 Other hazards

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
40 - 60	Solvent naphtha (petroleum), heavy arom. CAS: 64742-94-5, EINECS/ELINCS: 265-198-5, EU-INDEX: 649-424-00-3 GHS/CLP: Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411
1 - 5	Naphthalene CAS: 91-20-3, EINECS/ELINCS: 202-049-5, EU-INDEX: 601-052-00-2 GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H302 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Nausea, vomiting.
Headache

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Dry powder. Carbon dioxide. Foam.
Extinguishing media that must not be used	Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Not combusted hydrocarbons.

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5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Wear full protective suit.

Heat causes increase in pressure and risk of bursting - Keep away from the container.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use breathing apparatus if exposed to vapours/aerosol.
Use personal protective equipment.
Remove persons to safety.
High risk of slipping due to leakage/spillage of product.
Keep away from all sources of ignition.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling or spraying in enclosed areas.
Vacuuming in situ required.
Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.
Use explosion-proofed equipment/fittings and non-sparking tools.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
Contaminated work clothing should not be allowed out of the workplace.
Showers and eye wash stations should be provided.
Clean skin thoroughly after work, apply skin cream.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with oxidizing agents.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place. Store in a dry place.
Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational
exposure limits to be monitored

Substance	
Solvent naphtha (petroleum), heavy arom.	
CAS: 64742-94-5, EINECS/ELINCS: 265-198-5, EU-INDEX: 649-424-00-3	
Long-term exposure: 100 ppm, 525 mg/m ³ , OSHA	
Naphthalene	
CAS: 91-20-3, EINECS/ELINCS: 202-049-5, EU-INDEX: 601-052-00-2	
Long-term exposure: 10 ppm, 50 mg/m ³ , OSHA	
Short-term exposure (15-minute): 15 ppm, 75 mg/m ³	

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Using suitable discharges or exhaust ventilation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. 0,7mm: Butyl rubber, >480 min 0,7mm: Nitrile rubber, >480 min 0,7mm: Neoprene, >480 min
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation is insufficient, wear respiratory protection.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	No information available.
Odor	mild aromatic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 176°C / > 350°F
Flash point [°C]	62°C / 145°F
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,00 (20 °C / 68,0 °F)
Bulk density [kg/m ³]	not applicable
Solubility in water	reacts with water
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Upon decomposition in closed containers and tubes risk of bursting due to buildup of overpressure.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with isocyanates.
Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.
Strong heating.
Sunlight

10.5 Incompatible materials

See SECTION 10.3.

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10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, oral, > 5000 mg/kg.

Range [%]	Substance
40 - 60	Solvent naphtha (petroleum), heavy arom., CAS: 64742-94-5
	LD50, oral, Rat: > 5000 mg/kg (Lit.).
1 - 5	Naphthalene, CAS: 91-20-3
	LD50, oral, mouse: 533 mg/kg (OECD 401)(Lit.).
	LD50, dermal, Rat: > 2500 mg/kg (IUCLID).
	LD50, oral, Rat: > 2000 mg/kg (IUCLID).
	LC50, inhalative, Rat: > 100 ppm(8h) (IUCLID).
	NOAEL, dermal, Rat: 300 mg/kg/90d (OECD 411)(Lit.).
	NOAEL, oral, mouse: 133 mg/kg/90d (OECD 408)(Lit.).
	LOAEL, inhalativ (vapour), Rat: 0,011 mg/kg/90d (OECD 413)(Lit.).

Serious eye damage/irritation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. Vapours may cause drowsiness and dizziness. Calculation method
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Toxicological data of complete product are not available. Suspected of causing cancer. Calculation method
Aspiration hazard	Toxicological data of complete product are not available. May be fatal if swallowed and enters airways. Calculation method
General remarks	Symptoms: abdominal pain, nausea, vomiting, diarrhoea. May cause irritation of eye and skin. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
1 - 5	Naphthalene, CAS: 91-20-3
	LC50, (72h), Pimephales promelas: 6,08 mg/l (IUCLID).
	LC50, (24h), Pimephales promelas: 7,76 mg/l (IUCLID).
	EC50, (48h), Daphnia magna: 2,16 mg/l (IUCLID).

12.2 Persistence and degradability

ThSB: 2.990 mg/g (Lit.)(CAS 91-20-3)
BOD/ThBOD: 0% (Lit.)(CAS 91-20-3)
COD/ThBOD: 22% (Lit.)(CAS 91-20-3)

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability No information available.

12.3 Bioaccumulative potential

log Pow: 3,3 (20°C / 68°F)(OECD 107)(CAS 91-20-3)
BCF: 36,5 - 168 (OECD 305)(CAS 91-20-3)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Ecological data of complete product are not available.
The product was classified on the basis of the calculation procedure of the preparation directive.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

Product Dispose of as hazardous waste.
For recycling, consult manufacturer.

Contaminated packaging Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

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14.2 UN proper shipping name

Transport by land according to ADR/RID UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Naphthalene) 9 III

- Classification Code

M6

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Naphthalene) 9 III

- Classification Code

M6

- Label



Marine transport in accordance with IMDG

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Naphthalene) 9 III MARINE POLLUTANT

- EMS

F-A, S-F

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Naphthalene) 9 III

- Label



DOT Road Shipment Information (49 CFR) UN/NA NA1993 Combustible liquid, n.o.s.

Footnote: This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land. Comb liq III

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

NATIONAL REGULATIONS (GHS): GHS Rev.5 (2013)

- Observe employment restrictions for people

Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (1999/13/CE)

No information available.

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15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**16.1 Hazard statements (SECTION 3)**

H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H302 Harmful if swallowed.
 H351 Suspected of causing cancer.
 H411 Toxic to aquatic life with long lasting effects.
 H336 May cause drowsiness or dizziness.
 H304 May be fatal if swallowed and enters airways.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Flam. Liq. 4: H227 Combustible Liquid. (On basis of test data)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
 Carc. 2: H351 Suspected of causing cancer. (Calculation method)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none



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