

1 Identification of the substance / preparation and of the company

1.1 Product identifier

ASTC 3004 Part B

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

1.2.1 Relevant uses

See product information.

1.2.2 Uses advised against

None known.

1.3 Company Details

ASTC Polymers, Inc.
3207 W. Warner Ave.
Santa Ana, Ca 92704
Phone: 714-966-2893,
Fax: 714-966-9105
Homepage:
www.astcpolymers.com
E-mail:
info@astcpolymers.com

1.4 Emergency phone

714-966-2893, (24h) (English) 714-552-6915 & 714-803-1274

2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not applicable

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

C-N, R 22-34-51/53

2.2 Label elements

Hazard symbols



Contains:

Polyoxypropylenediamine
4,4'-methylenebis[N-sec-butylaniline]

R-phrases

R 22: Harmful if swallowed.
R 34: May cause irritation in sensitive individuals

S-phrases

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 60: This material and its container must be disposed of as hazardous waste.
S 61: Avoid release to the environment. Refer to special instructions, safety data sheets.

Special labelling

not applicable

2.3 Other hazards

Physicochemical hazards	See section 10.
Human health dangers	See section 11.
Environmental hazards	See section 12.
Other hazards	Further hazards were not determined with the current level of knowledge.

3 Composition / Information on ingredients

3.1 Substances

The product is a mixture.

3.2 Mixtures

Range [%]	Substance
2,5 - <10	Polyoxypropylenediamine CAS: 9046-10-0 (EC) No. 1272/2008 [GLP/GHS]; Acute Toxic 4, H302 Skin Cor. 1B,H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412 EEC: C R22-34-52/53
25 - <50	4,4'-methylenebis[N-sec-butylaniline] CAS: 5285-60-9, EINECS/ELINCS: 226-122-6 (EC) No 1272/2008 [GLP/GHS]; Acute Toxic 4, 4303 EEC: Xn R22
10 - <25	1,2-Benzenedicarboxylic acid, di-C9-11-branched and linear alkyl esters CAS: 68515-43-5, EINECS/ELINCS: 271-085-1 EEC: N R51/53; Acute Toxic 2; H300

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing immediately.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	Sensitive individuals seek immediate medical treatment. In case of contact with skin wash off with soap and water.
Eye contact	In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
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

Product is not considered caustic.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NO_x).
Not combusted hydrocarbons.

5.3 Advice for firefighters

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

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use breathing apparatus if exposed to spray mists, vapors/aerosol. Use personal protective equipment.
Remove persons to safety.

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

7 Handling and storage

7.1 Precautions for safe handling

Use in well-ventilated areas or provide air circulation and ventilation. Confined areas, no ventilation, use properly fitted NIOSH/MSHA approved respirator. Avoid spilling in enclosed areas. Vacuuming in situ required.

The product is Class IIIB liquids > 93.4°C

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- 7.2 Conditions for safe storage, including any incompatibilities** Keep only in original container. Prevent penetration into the ground.
Do not store together with acids.
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.
Store on pallets.

- 7.3 Specific end use(s)**
See product use, Section 1.2

8 Exposure controls / personal protection

8.1 Control parameters

not applicable

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection

Safety glasses

Hand protection

The details concerned are recommendations. Please contact the glove supplier for further information.

Butyl rubber, >480 min (EN 374).

Skin protection

Protective overalls.

Other

Avoid contact with eyes and skin.

Do not breathe vapors/spray.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these items to chemicals should be ascertained with the respective supplier.

Do not eat, drink, smoke or take drugs at work.

Remove contaminated soaked clothing immediately and dispose of safely.

Eye-wash bottle and showers are preview.

Clean skin thoroughly after work, apply skin cream.

Use barrier skin cream.

Respiratory protection

Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, filter A.

Thermal hazards

not applicable

Delimitation and monitoring of the environmental exposition

See Section 6+7.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	brownish
Odor	low amine-like
Odor threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not determined
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapor pressure [kPa]	not determined
Density [g/ml]	1,00-1,04 (20 °C)
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	600-1000 mPas (25 °C)
Relative vapors density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature	not determined

9.2 Other information

none

10 Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents. Reactions with reducing agents.

10.4 Conditions to avoid

See Section 7.2.

10.5 Incompatible materials

See Section 10.3.

10.6 Hazardous decomposition products

In the event of fire: See Section 5.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
2,5 - <10	Polyoxypropylenediamine, CAS: 9046-10-0
	LD50, oral, Rat: 480 mg/kg.
	LD50, dermal, Rabbit: 2090 mg/kg.
50 - <75	4,4'-methylenebis[N-sec-butylaniline], CAS: 5285-60-9
	LD50, oral, Rat: 1380 mg/kg
	LD50, dermal, Rabbit 3090 mg/kg
10 - <25	1,2-Benzenedicarboxylic acid, di-C9-11-branched and linear alkyl esters
	CAS: 68515-43-5, EINECS/ELINCS: 271-085-1
	CAS: 68515-43-5, EINECS/ELINCS: 271-085-1
	LD50, oral, Rat: >6,170 mg/kg

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitization	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

No information available.

12 Ecological information

12.1 Toxicity

Range [%]	Substance
2,5 - <10	Polyoxypropylenediamine, CAS: 9046-10-0
	LC50, (96h), fish: > 100 mg/l.
	EC50, (48h), Daphnia magna: 15 mg/l.
	IC50, (72h), Algae: 135 mg/l.

12.2 Persistence and degradability

Behavior in environment compartments	not determined
Behavior in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.
The product is insoluble in water.

13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

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

Waste no. (recommended)

080409*

Contaminated packaging

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

Waste no. (recommended)

150110*

14 Transport information

14.1 UN number

Not applicable
See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Classification according to ADR
- Classification Code

Not applicable
Not regulated
Not regulated

- Label
- ADR LQ
- ADR 1.1.3.6 (8.6)



Not Regulated
Not Regulated

Classification according to IMDG
- EMS

Not Applicable
Not Applicable

- Label
- IMDG LQ



Not Regulated
Not Regulated

Classification according to IATA

14.3 Transport hazard class(es)

Not Regulated
See point 14.2 in accordance with UN shipping name

14.4 Packing group

Not Regulated
See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name



14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

15 Regulatory information

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

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

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

16 Other information

R-phrases (Section 03)

R 22: Harmful if swallowed.
R 34: May cause irritation.
R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 21/22: Harmful in contact with skin and if swallowed.
R 36: Irritating to eyes.
R 48/22: Harmful - danger of serious damage to health by prolonged exposure if swallowed.
R 50/53: Toxic to aquatic organisms.

Hazard statements (Section 03)

H411 Toxic to aquatic life with long lasting effects.
H312 May cause irritation to skin.
H302 Harmful if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H319 Causes serious eye irritation.
H400 Toxic to aquatic life.
H410 Toxic to aquatic life with long lasting effects.

Observe employment restrictions for people

yes

VOC (1999/13/CE)

not determined

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.