

Section 1- Product and Company Identification

Product Name: 2-Tert.Butyl aminoethyl methacrylate

Synonyms: TBAEMA

Company Name: Shanghai Hechuang Chemical Technology Co., Ltd

Address: No.688, Qiushi Road, Jinshan District, Shanghai, China

Zip Code: 201512

Email: hcchem@126.com

Fax: 86-21-37285163

Emergency Tel: 86-21-37285183

Product Code: HCM504

Effective Date: August 22, 2009

State Emergency Tel: 86112

Section 2 - Composition/Information on Ingredients

Simple

Mixture

Chemical Name	Proportion	CAS No.
TBAEMA	≥99.0%	3775-90-4

Molecular Weight: 185.26

Chemical Formula: C₁₀H₁₉NO₂

Section 3 - Hazards Identification

Appearance: Clear, colorless liquid. Flash Point: 88 deg C.

Harmful if swallowed, inhaled, or absorbed through the skin. Causes respiratory tract irritation.

Lachrymator (substance which increases the flow of tears). Causes eye and skin irritation. Keep refrigerated. (Store below 4°C/39°F)

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes severe eye irritation. Lachrymator (substance which increases the flow of tears).

Skin: Causes severe skin irritation. May be harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea.

Inhalation: May be fatal if inhaled. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

Inhalation: If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers may explode in the heat of a fire.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide. **DO NOT USE WATER!**

Flash Point: 88 deg C

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: Not available

Section 6- Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wash area with soap and water. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation. Approach spill from upwind.

Section 7- Handling and Storage

Handling: Wash thoroughly after handling. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin,

and clothing. Use only in a chemical fume hood. Do not breathe vapor. Use only with adequate ventilation. Keep away from heat, sparks and flame. Do not breathe spray or mist.

Storage: Keep away from sources of ignition. Store in a tightly closed container.

Refrigerator/flammables. Store protected from light.

Section 8 - Exposure Controls Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
2-Tert.Buty aminoethyl methacrylate	none listed	none listed	none listed

OSHA Vacated PELs: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: clear, colorless

Odor: Pungent odor.

pH: Not available.

Vapor Pressure: 3.3mmHg@75 deg C

Vapor Density: Not available.

Evaporation Rate: Not available

Viscosity: 3.1 mPa·s @ 20 deg C

Boiling Point: >145 deg C (133mbar)

Freezing/Melting Point: Not available

Decomposition Temperature: Not available.

Solubility: Not available

Specific Gravity/Density: 0.920 g/ml

Molecular Formula: C₁₀H₁₉NO₂

Molecular Weight: 185.26

Section 10 - Stability and Reactivity

Chemical Stability: Stable only if stored and handled under recommended conditions. The stability of the product depends upon the availability of both dissolved oxygen and MEHQ inhibitor(CAS=150-76-5). The presence of oxygen is necessary for the MEHQ to function effectively The product should never be stored under an inert gas atmosphere, but should always be stored under an atmosphere containing 5-21% oxygen by volume.

Conditions to Avoid: Light, ignition sources, moisture, excess heat, loss of inhibitor.

Incompatibilities with Other Materials: Strong oxidizing agents, strong reducing agents, acids, bases, peroxides.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: May occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 3775-90-4: OZ3500000

LD50/LC50:

CAS# 3775-90-4:

Oral, rat: LD50 = 170 mg/kg;

Carcinogenicity:

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. Water Danger/Protection: WGK 2.

Environmental: No information available.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste

regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:		No information available.
Hazard Class:	8	
UN Number:		
Packing Group:	II	

Section 15 - Regulatory Information

US FEDERAL

CAS#3775-90-4 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

No information available.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletes.

This material does not contain any Class 2 Ozone depletes.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 3775-90-4 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives**

Hazard Symbols:Xi

Risk Phrases:36/38-43

Safety Phrases:26

WGK (Water Danger/Protection)

CAS# 3775-90-4: 1

Section 16 - Additional Information

MSDS Creation Date: 21 / 08 / 2010

Revision Date: 21 / 08 / 2010

Creation Department: Comprehensive administration department of Shanghai Hechuang Chemical Technology Co., Lt.

Data Audit Unit: Shanghai Hechuang Chemical Technology Co., Ltd.

Important Advice: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.