

MSDS of Tech-8220E

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1. Chemical name and manufacturer information

Product Name: Tech-8220E

Manufacturer : Shanghai Tech polymer materials Co;Ltd

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2. Chemical composition information

Chemical Composition:

Quaternary ammonium (75%)

Components Of Hazardous Substances:

Glycol (25%)

3. Hazard overview

Emergency Overview:

Flammable liquid. Cause skin irritation and eye irritation.

GHS Hazard Category:

Flammable liquid	: Category 4
Skin corrosion / irritation	: Category 2
Severe eye injury / eye irritation	Category 2B

GHS label elements:

Pictogram



Warning words

: warning

Hazard statement

: H227 flammable liquid.
H315 causes skin irritation.
H320 causes eye irritation

Precautionary statement

: Precautions:
P210 keep away from heat / sparks / open flames. No Smoking.
P233 keep container closed.
P240 vessel and receiving equipment grounding.
P241 use explosion-proof electrical / ventilation / lighting equipment.
P242 use only non sparking tools.
P243 take measures to prevent electrostatic discharge.
P280 wear protective gloves / goggles / face shield.
Accident response:
P303 + p361 + p353 in case of skin (or hair) contact: remove / remove all contaminated clothing immediately. Wash skin with water / shower.
P305 + P351 + P338 if in eyes: Rinse carefully with water for a few minutes. For example the contact lens can be easily taken out, and continue flushing.
P332 + P313 if skin irritation is felt: seek medical attention / see a doctor.

P337 + P313 if you still feel eye irritation: seek medical attention / see a doctor.

P370 + P378 in case of fire, extinguished with dry sand, dry powder or solubility resistance foam.

Storage precautions:

P403 + P235 keep low temperature and store in a well ventilated place.

Waste disposal:

P501 send the contents / containers to an approved waste treatment plant for treatment.

Physical and chemical hazards:

Flammable liquid.

Health hazards:

Cause skin irritation and eye irritation.

Environmental hazards:

There is no data indicating that the product has significant environmental impact. For details, see Part 12 of MSDS.

Other hazards:

There is no data report.

4. First aid measures

Inhalation: immediately transfer to a place with fresh air to avoid injury

kin Contact: take off the contaminated clothes at the first time and wash them with clean water or soapy water immediately

Eye Contact: in case of contact with eyes, wash immediately with plenty of water

Ingestion: do not induce vomiting, contact the hospital immediately



Doctor Assistance Information: Doctor's help information: it contains petroleum distillate, and there are no chemicals that require special assistance

5. Fire fighting measures

Hazardous characteristics: inflammable

Effective means of extinguishing fire: foam, carbon dioxide, dry powder extinguisher or fire hydrant.

Harmful substances that may be generated during fire extinguishing: carbon dioxide

Special equipment required for fire fighting: if necessary, special protective clothing shall be worn during fire fighting

6. Emergency treatment of leakage

Personal precautions: use personal precautions

Environmental protection means: the product cannot be introduced into the drainage pipeline

Cleaning: absorption of inert materials (e.g. sand, silica gel, sawdust, etc.).

7. Handling and storage

Precautions for operation:



Suggestions for safe use: use ventilation equipment and do not take it orally

Storage precautions:

Requirements for storage container and site: the storage container shall be sealed and stored in a ventilated place

Further requirements for storage conditions: keep away from heat sources

8.Exposure contact and personal protection

Allowable contact concentration at the workplace:

Compound	CAS#	Standard type	Control parameters		Source
			Value [ppm]	Value [mg/m ³]	
Glycol	107-21-1	TWA	50,0	220,0	EH40 OES
		STEL	110,0	441,0	EH40 OES
		TWA	50,0	221,0	EU ELV
		STEL	100,0	442,0	EU ELV

Personal protective facilities

Respiratory protection: respiratory device shall be worn in the place with poor ventilation

Hand protection: wear work gloves

Eye protection: wear protective goggles

Skin to body contact: wear long sleeved clothes

Sanitary means: the operation needs to follow strict sanitary operation specifications

9. Physical and chemical properties

Form: liquid

Color: yellow

Smell: special smell

Melting point: no relevant data

Flash point: $> 100^{\circ}\text{C}$ (closed cup test method)

Initial boiling point: 197°C

Steam pressure: no relevant data

Density: 0.98 g/cm^3 at 20°C (1.013 HPA) test method: according to DIN EN ISO 2811-3

Bulk density: no relevant data

Water solubility: insoluble

Viscosity at 20°C : no relevant data

Viscosity at 40°C : no relevant data

Surface tension: no relevant data

10. Stability and reactivity

Stability: stable

Reactivity:

Service conditions to avoid: direct use will not decompose

Substances to avoid common use: strong oxidants

11. Toxicological data

Acute oral toxicity: no relevant data

Skin contact toxicity: no relevant data

Eye contact: no relevant data

Toxic dose: no relevant data

Additional suggestion: no relevant data

12. Ecological data

Ecotoxicity effect

Acute toxicity (toxicity to fish): no relevant data

Mobility: no relevant data

Microbial toxicity: no relevant data

Other side effects: no relevant data

Degradation information (residue and degradability)

Biodegradability: no relevant data

Bioaccumulation toxicity: no relevant data

13. Waste disposal



Product: dispose according to local regulations

Empty drums not cleaned: dispose of in accordance with local regulations

14. Transportation information

Land transportation

unrestricted

Ocean shipping

unrestricted

Air transport

unrestricted

15. Regulatory information

Applicable regulations

Decree No. 591 of the State Administration of work safety on the safety management of hazardous chemicals:

Catalogue of hazardous chemicals (2015 Edition) (non serious drugs):	Not listed
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List of dangerous chemicals liable to explosion:	Not listed
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Catalogue of hazardous chemicals (version 2015) (highly toxic products):	Not listed
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Hazardous chemicals (products only):	No
The list of the first batch of key regulated hazardous chemicals published by the State Administration of work safety:	Not listed
The second batch of hazardous chemicals under key supervision published by the State Administration of work safety:	Not listed
List of hazardous chemicals under key environmental management:	Not listed
Decree No. 653 of the State Council of the people's Republic of China on the administration of precursor chemicals:	
Regulations on import and export management of precursor chemicals:	
List of categories and varieties of precursor chemicals attached to the regulations on the administration of precursor chemicals:	Not listed
Regulations of the people's Republic of China on the administration of MCCs:	
List of various MCCs:	Not listed
List of toxic chemicals whose import and export are strictly restricted in China:	Not listed
Regulations on labor protection in workplaces where toxic substances are used:	
List of highly toxic substances:	Not listed
Environmental management measures for new chemical substances:	
List of existing chemical substances in China:	All ingredients listed
Regulations on the management of ozone depleting substances:	
List of controlled ozone depleting substances in China:	Not listed
Rotterdam Convention (Annex III):	Not listed
Interim Provisions on supervision and management of major hazard installations of hazardous chemicals:	
Gb18218 identification of major hazard installations of hazardous chemicals:	Not listed

16. Other information

The product information and relevant data provided by this MSDS are from current reliable resources and have been carefully corrected, but no commitment and guarantee are made for this. It is the user's



responsibility to conduct necessary safety, loss and hazard assessment before using this product. This information is intended to provide users with reference to relevant basic data information. Please be sure to test its applicability. If you have other needs, please consult us or ask relevant departments for help.