

# MSDS of Tech-9012

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Version 2.0

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## 1. Chemical name and manufacturer information

**Product Name:** Tech-9012

**Manufacturer :** Tech Polymer Technology Co., Ltd Shanghai China

**Address:** Building 27, NO.588, Tianxiong Road, Pudong New Area, Shanghai

**Telephone Number:** +86-21-50796110

**Fax Number:** +86-21-50796113

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## 2. Chemical composition information

### Chemical Composition:

Polyurea polymer (50%)

### Components Of Hazardous Substances:

N-methylpyrrolidone (50%)

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## 3. Hazard overview

## Emergency Overview:

Flammable liquid. Cause skin irritation and eye irritation.

### GHS Hazard Category:

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

### GHS label elements:

Pictogram



Warning words

: warning

Hazard statement

: H227 flammable liquid.  
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:  
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.  
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 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.

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## 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

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## 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

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## 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.).

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## 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

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## 8. Exposure contact and personal protection

**Allowable contact concentration at the workplace:**

| Compound            | CAS#     | Standard type | Control parameters |                            | Source   |
|---------------------|----------|---------------|--------------------|----------------------------|----------|
|                     |          |               | Value [ppm]        | Value [mg/m <sup>3</sup> ] |          |
| N-methylpyrrolidone | 872-50-4 | TWA           | 80,0               | 350,0                      | EH40 OES |
|                     |          | STEL          | 160,0              | 700,0                      | EH40 OES |
|                     |          | TWA           | 80,0               | 350,0                      | EU ELV   |
|                     |          | STEL          | 160,0              | 700,0                      | 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

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## 9. Physical and chemical properties

**Form:** liquid

**Color:** yellow

**Smell:** special smell



**Melting point:** no relevant data

**Flash point:** 91 ° C (closed cup test method)

**Initial boiling point:** 200 °C

**Steam pressure:** no relevant data

**Density:** 1.11 g / cm<sup>3</sup> at 20 ° C (1.013 HPA) test method: according to DIN EN ISO 2811-3

**Bulk density:** no relevant data

**Water solubility:** soluble

**Viscosity at 20 ° C:** no relevant data

**Viscosity at 40 ° C:** no relevant data

**Surface tension:** no relevant data

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## 10. Stability and reactivity

**Stability:** stable

**Reactivity:**

**Service conditions to avoid:** direct use will not decompose

**Substances to avoid common use:** strong oxidants

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## 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

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## 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

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## 13. Waste disposal

**Product:** dispose according to local regulations

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

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## 14. Transportation information

## Land transportation

unrestricted

## Ocean shipping

unrestricted

## Air transport

unrestricted

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## 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 |
|----------------------------------------------------------------------|------------|

|                                                  |            |
|--------------------------------------------------|------------|
| List of dangerous chemicals liable to explosion: | Not listed |
|--------------------------------------------------|------------|

|                                                                          |            |
|--------------------------------------------------------------------------|------------|
| Catalogue of hazardous chemicals (version 2015) (highly toxic products): | Not listed |
|--------------------------------------------------------------------------|------------|

|                                      |    |
|--------------------------------------|----|
| 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 |
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| The second batch of hazardous chemicals under key supervision published by the State Administration of work safety: | Not listed |
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|                                                                 |            |
|-----------------------------------------------------------------|------------|
| 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.