

# Material Safety Data Sheet

## (MSDS)

In accordance with GHS Rev. 6 and The EU CLP REGULATION (EC) No 1272/2008

### Section 1 - Chemical Product and Company Identification

#### 1.1 Product Identification:

Product Name: Polyurethane foam remover ASTER® PUR-520

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

Identified uses: Polyurethane foam remover

Use advised against: No data available.

#### 1.3 Details of the Manufacture or supplier

Manufacture: LINYI JOINT NATURE CHEMICAL CO., LTD.

Address: MIDDLE OF №2 GONGYE ROAD, LANSHAN INDUSTRIAL PARK,  
LANSHAN DISTRICT, LINYI, SHANDONG, PRC, 276015, CHINA

#### 1.4 Emergency telephone number

Emergency Telephone: +86-13562963522

### Section 2 - Hazards Identification

#### 2.1 Classification of the substance or mixture

**GHS Classification:** Flammable aerosol (Category 2)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

Central nervous system Carcinogenicity (Category 2)

#### 2.2 GHS Label elements, including precautionary statements

**GHS Labels:**

**Pictogram(s):**



<b>Signal Word:</b>	Warning
<b>Hazard Statement:</b>	H223: Flammable aerosol H315: Causes skin irritation H319: Causes serious eye irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer
<b>Precautionary Statement(s)</b>	
<b>Prevention Precautionary Statements:</b>	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P260: Do not breathe dust/fumes/gas/mist/vapors/spray. P264: Wash thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P281: Use personal protective equipment as required
<b>Response Precautionary Statements:</b>	P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P333+313: If skin irritation or a rash occurs: Get medical advice/attention. P362: Take off contaminated clothing and wash before reuse. P304+P340+P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. P337+313: If eye irritation persists get medical advice/attention. P370+378: In case of fire: Use sand, alcohol-resistant foam, dry chemical or carbon dioxide for extinction. P308+313: If exposed: Call a POISON CENTER or doctor/physician. P314: Get medical advice/attention if you feel unwell.
<b>Storage Precautionary Statements:</b>	P403+233: Store in a well ventilated place. Keep container tightly closed. P405: Store locked up. P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
<b>Disposal Precautionary Statements:</b>	P501: Dispose of contents and container in accordance with local/ regional/national/international regulations.

### 2.3 Description of any hazards not otherwise classified

None. See section 11 for more detailed information on health effects and symptoms.

**Section 3 – Composition/Information on Ingredient**Substance ☐ Preparation ☒ Article ☐

Composition:

Chemical name	Cas No.	Content (%)
Surfactant	85854-32-6	6-10
Isopropanol	67-63-0	45-50
Acetone	67-64-1	8-14
Benzyl acetate	140-11-4	4-8
Isobutane	75-28-5	3-7

Abbreviation: CAS No. is Chemical Abstract Service Registry Number.

**Section 4 – First Aid Measures****4.1 Description of first aid Measures:**

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation occurs and persists, contact a physician.

Skin Contact: Remove and isolate contaminated clothing and shoes. Wash off with soap and plenty of water. If irritation occurs, contact a doctor.

Inhalation: Move a person into fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention if feel unwell.

Ingestion: If the person is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Consult a physician attention and get medical help.

**4.2 Most important symptoms and effects, both acute and delayed:**

The most important known symptoms and effects are described in section 2 and section 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically and supportively.

**Section 5 – Extinguishing media****5.1 Extinguishing media**

**Suitable extinguishing media:** Use alcohol-resistant foam, dry chemical or carbon dioxide. Use water fog to cool the unopened containers involved in fire.

**Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter or spread fire.

**5.2 Special hazards arising from the substance or mixture**

Liquid and vapor are flammable. Remove all fire source. Vapor can form explosive mixture with air. Vapor may travel to source of ignition and flash back. Containers may explode when heated. Gives off irritating fumes (or gases) and combustion product (Carbon oxides, chloride) in a fire.

### **5.3 Advice for firefighters**

Evacuate personnel to safe areas. As in any fire, Wear self-contained breathing apparatus and full protective gear for firefighting. Firefighting from a safe distance.

### **5.4 Further information**

Standard chemical firefighting measure. Use water fog to cool down unopened container involved in fire. Prevent fire extinguishing water from contaminating surface water or the ground water source.

## **Section 6 - Accidental Release Measures**

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Evacuate area. Ventilate area. Avoid direct contact with spillage. Avoid inhaling vapor. Use suitable personal protective equipment.

### **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up:**

Small quantities may be contained by inert material (sand, diatomite, acid binders, universal binders, sawdust). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Gather the spilled product and keep in suitable, closed containers for recycle or disposal(see section 13).

## **Section 7 - Handling and Storage**

### **7.1 Precautions for safe handling:**

The usual precautionary measures for handling chemicals should be followed.

Use in well-ventilated area.

Use appropriate, approved safety equipment as in section 8.

Avoid contact with skin and eyes. Avoid breathing vapor or mist.

Wash thoroughly after handling.

Keep away from heat/sparks/open flames/overheat.

Keep container tightly closed when not in use.

Do not eat, drink or smoke at the workplace.

Keep away from strong oxides. Equip with fire fight and accidental release equipment.  
For precautions see section 2.

## 7.2 Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store away from foodstuffs. Do not store together with incompatible materials. Keep away from heat/sparks/open flames/overheat. Avoid direct sunlight. Equip with fire fight and accidental release equipment in storage area.

## Section 8 - Exposure Controls, Personal Protection

### 8.1 Exposure Limits:

### 8.2 Exposure controls

**Engineering Control:** General industrial hygiene practice. Provide appropriate exhaust ventilation. Provide safe shower and eye wash fountain.

### Personal protective equipment:

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eyes Protection:** Use face shield and safety glasses if in-eye risk exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Body Protection:** Wear chemical resistant complete suit, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hands Protection:** Handle with chemical-resistant gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

**Other Protections:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	Aerosol
Color	Transparency color
Odor	Weak odor
pH	Not available

Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Flammable
Vapor pressure	Not available
Vapor density	Heavier than air
Relative density	Not available
Solubility(ies)	Partly soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

## Section 10 - Stability and Reactivity

**10.1 Stability:** Stable under normal storage temperature and pressure.

**10.2 Conditions to Avoid:** Heat, flames and sparks. Avoid direct sunlight.

**10.3 Incompatible materials:** Strong oxidants.

**10.4 Hazardous Decomposition Products:** Other decomposition products- no data available. In the event of fire: see section 5.

**10.5 Possibility of hazardous reactions:** None hazardous reactions known under normal condition.

## Section 11 – Toxicological Information

### Acute Toxicity:

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Eye Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Reproductive Toxicity:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity – Single Exposure (Globally Harmonized System):** May cause drowsiness or dizziness.

**Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):** Based on available data, the classification criteria are not met.

**Aspiration Hazard:** Based on available data, the classification criteria are not met.

### Potential Health Effects:

**Inhalation:** May be harmful if inhaled vapor. May cause drowsiness or dizziness.

**Skin Contact:** May be harmful if absorbed by skin. Causes skin irritation.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Not an expected route of exposure.

**Section 12 – Ecological Information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

**12.6 Other adverse effects**

Do not allow materials to release to drains or water body.

**Section 13 – Disposal Considerations****Waste treatment methods****Product**

Recycle if possible. Offer surplus and non-recyclable products to a licensed disposal company. Observe according to the national and local related regulations.

**Contaminated packaging**

Containers may still present chemical hazard when empty. Return to supplier for recycling if possible. Keep away from heat. Pressurized container – Do not pierce or burn, even after use.

**Section 14 – Transport Information****14.1 UN Number:**

ADR/RID, IMDG, IATA 1950

**14.2 UN proper shipping name:** AEROSOLS

ADR/RID, IMDG, IATA

**14.3 Transport hazard class(es):** 2.1

ADR/RID, IMDG, IATA

**14.4 Packing group:** Not applicable.

**ADR/RID, IMDG, IATA****14.5 Environmental hazards:** No.**14.6 Special precautions for user:** No information available**Section 15 – Regulatory Information****EU Regulations**

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable aerosol (Category 2)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3), Central nervous system

Carcinogenicity (Category 2)

**US Regulations****TSCA Inventory Status:**

All of the components of this product are listed or exempt from the TSCA inventory.

**SARA Section 311/312 Hazard Classes**

Fire hazard, Acute health hazard, Chronic hazard

**International Chemical Substances list:**

CAS No.	EINEC	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
All ingredients	listed	listed	listed	listed	listed	listed	listed	listed

Note:

EINECS: European Inventory of Existing Commercial Chemical Substances

TSCA: TSCA Chemical Substance Inventory

DSL: Canada Domestic Substance List

IECSC: Inventory of Existing Chemical Substances in China

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippines Inventory of Chemicals and Chemical Substances

KECI: Korea Existing Chemicals Inventory

AICS: Australian Inventory of Chemical Substances

**Section 16 – Additional Information****Abbreviations:**

pH - Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

OSHA - Occupational Safety and Health Administration

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer



CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds

ACGIH - The American Conference of Governmental Industrial Hygienists

ADR - Agreement on Dangerous Goods by Road

IATA - International Air Transport Association

IMDG- International Maritime Dangerous Goods

**Further Information:**

-This safety data sheet was prepared in accordance with UN GHS Rev.6, The EU CLP REGULATION (EC) No 1272/2008, and ANSI Z400.1.

-The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.