Material Safety Data Sheet (MSDS)

Sample Name: Polyurethane foam sealant

Sample ingredients/raw materials (provided by the customer): see Part III "Ingredient/Composition Information" in the body of the report

Editing Period: July 24, 2025 to July 25, 2025

Project: Prepare MSDS based on sample information provided by the customer.

Abstracts: According to the customer's request, the content and format of this Safety Technical Sheet are compiled in accordance with the European Commission Regulation "Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 10th Edition (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 878/2020, and (EU) No 2015/830, as detailed in the body of the attached report.

Client Name: Jinhua Luchao Chemical Technology Co., Ltd.

Client Address: No.1 West B138-1, Redwood Furniture Museum, Dongyang China Woodcarving City, Lantian Community, Baiyun Street, Dongyang City, Jinhua City, Zhejiang Province, China

Signed for and on Behalf of **SNTEK**

Main inspection: 傅慧 sign and issue: 陈玲玉

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Labeling

Product Name: Polyurethane foam sealant

Mode: General type

1.2 Recommended and Restricted Uses

Recommended use: Foam sealant

Restricted use: Restricted to Professional Applications

1.3 Product Manufacturer or Supplier Information

Manufacturer: Jinhua Luchao Chemical Technology Co., Ltd.

Address: No.1 West B138-1, Redwood Furniture Museum, Dongyang China Woodcarving City, Lantian Community, Baiyun Street, Dongyang City, Jinhua City, Zhejiang Province, China

Telephone: -86+13691214494

E-mail: wobuxiang2025@163.com

1.4 Enterprise emergency telephone

Enterprise emergency telephone: -86+13691214494

SECTION 2: Hazards identification

Summary of emergency

This product is a flammable aerosol and is stored in a pressure vessel. When the vessel is heated, it may explode due to a sudden increase in internal pressure.If skin contact causes discomfort: immediately remove or take off all contaminated clothing. Wash the skin with water or shower. In case of eye contact: rinse with plenty of water and remove any contact lenses. If ingested: seek medical attention immediately and do not induce vomiting. In the event of a fire, it may produce harmful gases or vapors.

2.1 GHS Classification

Flammable aerosol, category 2.

2.2 GHS Label elements, including precautionary statements

Hazard pictograms: 

Signal Word: Warn

Hazard Statements: H223 Flammable aerosol

H229 Pressurized container, explosive when heated.

Precautionary Statements

Prevention:

P210 Keep away from heat sources/sparks/open flames/hot surfaces. No Smoking.

P211 Do not spray on open flames or other ignition sources.

P251 Do not puncture or burn, even if no longer in use.

2.3 Physical and chemical hazards

Flammable aerosol. Pressurized container: Explosive when heated.

2.4 Health hazards

There is no need to classify based on existing information.

2.5 Environmental hazards

There is no need to classify based on existing information.

2.6 Other hazards

None.

SECTION 3: Composition/information on ingredients

3.1 Chemical characteristics

Substance / mixture: mixture

3.2 Composition / component

Description: A mixture composed of the following components

Component	Appr. %	CAS
4,4'-Diphenylmethane diisocyanate	27	101-68-8
Polymethylene polyphenyl polyisocyanate	18	9016-87-9
Dimethyl ether	40	115-10-6
Butane	9	106-97-8
Propane	6	74-98-6

Note: The above harmful substances have not reached the minimum regulatory value.

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: seek medical attention immediately and do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO_2) Foam Dry powder.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

Nature of decomposition products not known.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 3: Flammable aerosol

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Engineering Control

Keep away from heat sources and open flames. Provide adequate local exhaust ventilation. Store in a cool and dry place.

8.2 Exposure controls

Appropriate engineering controls

Eye/face protection

Wear goggles or protective face shields to prevent material splashes or volatile substances from coming into contact with the eyes and causing irritation or injury.

Skin protection

Wear protective gloves and long sleeved clothing to avoid direct skin contact and prevent foam materials from adhering or chemicals from irritating and damaging the skin.

Splash protection

Wear protective equipment (such as goggles, gloves, etc.) and control the spraying angle and force to prevent materials from splashing and coming into contact with the human body or polluting the environment.

Body protection

Wear long sleeved protective clothing, protective gloves, and other protective equipment to fully cover exposed parts of the body and avoid injury caused by material contact or splashing.

Respiratory protection

Maintain ventilation and wear professional protective masks for dual protection.

Control of environmental exposure

Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Aerosol
b)	Color	White
c)	Odor	Odorless
d)	pH	No data available
e)	Melting point/ freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point (open flash point)	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	Flammable
j)	Upper/lower Flamm-ability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	Immiscible
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
s)	No data available	No data available
t)	Oxidizing properties	No oxidizing

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.2 Possibility of hazardous reactions

Violent reactions possible with:Strong oxidizing agents.

10.3 Conditions to avoid

No data available

10.4 Incompatible materials

Strong oxidizing agents

10.5 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral : No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/ irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable product to a licensed disposal company.

SECTION 14: Transport information

14.1 UN number

ADR/RID: UN1950 IMDG: UN1950 IATA-DGR: UN1950

14.2 UN proper shipping name

ADR/RID: Aerosol

IMDG: Aerosol

IATA-DGR: Aerosol

14.3 Transport hazard class(es)

ADR/RID: 2.1 IMDG: 2.1 IATA-DGR: 2.1

14.4 Packaging group

ADR/RID: No IMDG: No IATA-DGR: No

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA-DGR: No

14.6 Special precautions for user

Avoid generating dust.

14.7 Incompatible materials

Strong oxidizer.

Further information

It should be isolated from incompatible substances such as oxidants and acids to avoid mixing, storage, or transportation. The cabin should be well ventilated and kept away from heat sources and open flames.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

16.1 References:

[1] IPCS: International Chemical Safety Card (ICSC)

Website: http://www.ilo.org/dyn/icsc/showcard.home

[2] EU REACH Registered Substances Database

Website: http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances

[3] OECD Global Chemical Information Platform (GCIP)

Website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

[4]US CAMEO Chemical Substance Database

Website: http://cameochemicals.noaa.gov/search/simple

[5]U.S. Library of Medicine: Chemical Labeling Database

URL: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

16.2 Shrinking:

PC-STEL Short Time Exposure Tolerance Concentration

PC-TWA Time-weighted average

IARC International Agency for Research on Cancer

IATA International Air Transport Association

ICAO International Civil Aviation Organization

UN United Nations

16.3 Disclaimer:

The format of this MSDS complies with the requirements of the 10th edition of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 878/2020, and (EU) No 2015/830, and the data are obtained from international authoritative databases and data submitted by the enterprises, and the other information is based on the current knowledge of the company. Other information is based on the company's current knowledge. We try our best to ensure the correctness of all the information in this document, but due to the diversity of information sources and the limitations of our knowledge, this document is only for users' reference. The user of the safety instructions should make a judgment on the reasonableness of the information according to the purpose of use. We shall not be liable for any damages arising from the operation, storage, use or disposal of this product.

16.4 Revision Information

Date of MSDS preparation:Friday, July 25,2025

MSDS Version: 1.0