

BTH-V200 Material Safety Data Sheet (MSDS)

1.IDENTIFICATION

1.1Product identifiers

Trade name: Divinyl tetramethyl disiloxane BTH-V200

Generic Description: Organic silicon compound

Physical Form: Colorless transparency liquid

Color: Colorless

Odor: N/A

1.2 Company Identification

Company: Anhui Bitehai New Materials Co., LTD

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2.HAZARDS IDENTIFICATION

This is a hazardous material. Emergency overview: Warning! Flammable liquid. Causes irritation to skin, eyes and respiratory tract. Maybe harmful if swallowed. Moisture sensitive. Target Organs: Eye, skin, respiratory tract.

Hazard Effects

Eye: Contact with liquid and vapor causes eye irritation. May cause chemical conjunctivitis.

Skin: Contact causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Hazard Classification and Symbols

Hazard Sorts: 3.3

Hazard Symbols: F (Flammable), Xi (Irritant)

Risk Description: R10 (Flammable); R36/37/38 (Irritating to eyes, respiratory system and skin)

Safety Description: S16 (Keep away from sources of ignition - No smoking); S26 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice); S37/39 (Wear suitable gloves and eye/face protection)

NFPA Rating (estimated): Health: 2; Flammability: 3; Instability: 1

3.COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Main Substance Name: Divinyl tetramethyl disiloxane

CAS-No.: 2627-95-4

EINECS: 220-099-6

Percent (by weight): 99.5%

Hazardous Ingredients: Impurity (Percent by weight: 0.5%, CAS No.: N/A, EINECS: N/A)

4. FIRST AID MEASURES

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

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Oral: If swallowed, do not induce vomiting unless directed to do so by a medical personnel. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Comments: Treat symptomatically.

5. FIREFIGHTING MEASURES

Flash Point: 24°C (closed)

Autoignition Temperature: Not determined

Flammability Limits in Air: Not determined

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Fire Fighting Measures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire Hazards: Flammable liquid and vapor; will burn if involved in a fire. Vapors may be heavier than air, spread along the ground, collect in low or confined areas, and travel to a source of ignition and flash back. Runoff from fire control or dilution water may cause pollution.

Hazardous Decomposition Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion, including CO, CO₂, silicon dioxide, etc.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Use proper personal protective equipment as indicated in Section 8.

Avoid contact. Evacuate and ventilate spill area. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container for disposal. Clean up spills immediately, observing precautions in the Protective Equipment section. Prevent entry of material into sewers, other water sources, or land areas. Remove all sources of ignition. Use a spark-proof tool. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well

as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See Section 8 for Personal Protective Equipment for Spills.

7. HANDLING AND STORAGE

Handling

Ground and bond containers when transferring material.

Use spark-proof tools and explosion-proof equipment.

Keep container tightly closed.

Keep from contact with moist air and steam.

Use only with adequate ventilation.

Keep away from heat, sparks and flame.

Avoid contact with eyes, skin and clothing.

Avoid ingestion and inhalation.

Wash clothing before reuse.

Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks, or open flames.

Smoking is forbidden.

Storage

Flammable. Store in cool, dry, well-ventilated area away from incompatible substances.

Store in original sealed containers.

Keep container away from the sunshine, sparks and any source of ignition.

Store protected from moisture.

Use non-sparking tools.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits

Exposure Limit: Not available.

Monitoring Methods

No information found.

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Personal Protective Equipment for Routine Handling

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Inhalation: Wear appropriate, properly fitted NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Personal Protective Equipment for Spills

Same as routine handling: Wear appropriate protective eyeglasses or chemical safety goggles, protective gloves, protective clothing, and properly fitted NIOSH/MSHA approved respirator if needed.

Precautionary Measures

No smoking or eating at the work scene.

Maintain good health habits.

These precautions are for room temperature handling. Use at elevated temperatures or in aerosol spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Colorless transparency liquid

Color: Colorless

Odor: N/A

Molecular Formula: $C_8H_{18}OSi_2$

Molecular Weight: 186.40

Specific Gravity (Density) @ 20°C: 0.81 g/ml

Viscosity: N/A

Freezing/Melting Point: -99°C

Flash Point: 24°C (closed)

Boiling Point: 133-139°C

Vapor Pressure @ 25°C: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Solubility in Water: Slight in water

pH: 7

Volatile Content: N/A

Decomposition Temperature: N/A

Chemical Uses: Additives used in the production of addition type liquid silicone rubber, silica gel, liquid silica gel, vinyl silicone, vinyl silicone oil, platinum and chromium compounds, etc.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions. Moisture sensitive.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Ignition sources, moisture, excess heat.

Materials to Avoid: Strong oxidizing agents, bases, strong acids.

Hazardous Decomposition Products: CO, CO₂, silicon dioxide, etc.

11. TOXICOLOGICAL INFORMATION

Acute Toxicology Data / Component Toxicology Information: For CAS# 2627-95-4 (main component), LD50: ≥ 10 g/kg (oral, rat).

Special Hazard Information on Components:

Carcinogenicity: Not listed by ACGIH, IARC, NTP.

Sensitization Rate: Not available.

Teratogenicity: Not available.

RTECS# (for main component): JM9235250.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: Complete information is not yet available.

Environmental Effects: Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants: Complete information is not yet available.

Ecotoxicity: Not available.

Ecological Degradation: Not available.

Biological Degradation: Not available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	≤ 1	> 1 and ≤ 100	> 100
Acute Terrestrial Toxicity	≤ 100	> 100 and ≤ 2000	> 2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993. This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261): When a decision is made to discard this material, chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. RCRA P-Series: None listed. RCRA U-Series: None listed.

State or local laws may impose additional regulatory requirements regarding disposal. Waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification..

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Regulated as a hazardous material for transportation.

Ocean Shipment (IMDG)

Regulated as a hazardous material for transportation.

UN: 1993

Classification: 3.3



Shipping Name: FLAMMABLE LIQUID, N.O.S

Packaging Category:

Packaging Category	I	II	III
Limit	None	1L	5L

Packaging Information: Plastic Drum 20kg; Iron Drum 160kg, can be packaged in accordance with customer requirements.

Shipping Notice: Containers should be bonded and grounded for transfers to avoid static sparks.

Air Shipment (IATA)

Not specified (refer to relevant IATA regulations for details).

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200 (for reference).

TSCA Status: CAS# 2627-95-4 (main component) is listed on the TSCA Inventory of Chemical Substances.

DSL Status: CAS# 2627-95-4 (main component) is listed.

OSHA: None of the chemicals in this product are listed.

California Prop 65: None of the chemicals in this product are listed.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None.

Section 304 CERCLA Hazardous Substances: None.

Section 312 Hazard Class: Acute: No; Chronic: No; Fire: Yes (flammable); Pressure: No; Reactive: No.

Reference to the local, national, US, CA and EU/international regulations for additional compliance requirements.

16. OTHER INFORMATION

These data are offered in good faith as typical values based on the available information, not as product specifications. No warranty, either expressed or implied, is hereby made.

The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

To the best of our knowledge, the information contained herein is accurate. However, neither the supplier (Anhui Bitehai New Materials Co., LTD) nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Abbreviations Explanation

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service
DOT: Department of Transportation
DSL: Domestic Substances List
EINECS: European Inventory of Existing Commercial Substances
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
LD50: Lethal dose, 50 percent kill
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Level
REL: Recommended Exposure Limit
STEL: Short Term Exposure Limit
TDG: Transportation of Dangerous Goods
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average
TLV: Threshold Limit Value

ISSUED BY
Anhui Bitehai New Materials Co., LTD

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REV. NO./REPL. SDS

GENERATED

SAFETY DATA SHEET STATUS

Approved:

DATE 03.17.2025

SIGNATURE Eric