

BTH-P120 Material Safety Data Sheet (MSDS)

1. IDENTIFICATION

1.1 Product identifiers

Trade name: BTH-P120 Diethoxy(methyl)phenylsilane

Generic Description: Laboratory chemical, organic silicon compound

Form: Clear liquid

Color: Light yellow

Odor: No data available

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!

Causes irritation to skin, eyes and respiratory tract.

Moisture sensitive.

Target Organs: Eye, skin, respiratory tract.

Hazard Effects

Eye: Contact with liquid and vapor causes serious eye irritation.

Skin: Contact causes skin irritation.

Ingestion: May cause irritation of the digestive tract. Consult a physician if swallowed.

Inhalation: May cause respiratory irritation.

Hazard Classification and Symbols

Hazard Sorts: Skin Irrit. 2; Eye Irrit. 2; STOT SE 3

Hazard Symbols: Xi (Irritant)

Risk Description: H315 (Causes skin irritation); H319 (Causes serious eye irritation); H335 (May cause respiratory irritation)

Safety Description: P261 (Avoid breathing mist or vapors); P264 (Wash skin thoroughly after handling); P271 (Use only outdoors or in a well-ventilated area); P280 (Wear protective gloves/ eye protection/ face protection); P302 + P352 (IF ON SKIN: Wash with plenty of water); P305 + P351 + P338 (IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing)

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



3.COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: SubstanceMain

Substance Name: Diethoxy(methyl)phenylsilane (Synonyms: Methyl-phenyl-diethoxysilane)

CAS-No.: 775-56-4

EC-No.: 212-275-6

Molecular Weight: 210.34 g/mol

Percent (by weight): ≤100%

Hazardous Ingredients: None

4.FIRST AID MEASURES

Eye: Immediately flush eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call in ophthalmologist.

Skin: Take off immediately all contaminated clothing. Rinse skin with water/shower thoroughly. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid if symptoms persist.

Oral: If swallowed, immediately make victim drink water (two glasses at most). Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Consult a physician. **Comments:** Show this material safety data sheet to the doctor in attendance. Treat symptomatically.

5.FIREFIGHTING MEASURES

Flash Point: 89°C (closed cup)

Autoignition Temperature: No data available

Flammability Limits in Air: No data available

Extinguishing Media: Foam, Carbon dioxide (CO₂), Dry powder

Fire Fighting Measures: In case of fire, wear self-contained breathing apparatus and full protective clothing. Keep a safe distance to prevent skin contact. Remove container from danger zone and cool with water. Suppress gases/vapors/mists with a water spray jet.

Unusual Fire Hazards: Combustible liquid and vapor. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.

Hazardous Decomposition Products: During a fire, hazardous combustion gases or vapors may be generated, including carbon oxides, silicon oxides.

6.ACCIDENTAL RELEASE MEASURES

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

Evacuate the danger area and ensure adequate ventilation. Cover drains to prevent product entry. Collect, bind, and pump off spills. Take up with liquid-absorbent material (e.g. Chemizorb®) and place in suitable container for disposal. Clean up affected area immediately. **Note:** Prevent fire extinguishing water from contaminating surface water or groundwater system. Comply with

local, state and federal laws and regulations for release and disposal. See Section 8 for Personal Protective Equipment for Spills.

7. HANDLING AND STORAGE

Handling

Keep away from open flames, hot surfaces and sources of ignition.

Take precautionary measures against static discharge.

Use only with adequate ventilation.

Avoid contact with eyes, skin and clothing.

Avoid ingestion and inhalation.

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the substance.

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

Storage

Store in cool, dry, well-ventilated area.

Keep container tightly closed.

Store protected from moisture.

Store as combustible liquids (Storage class TRGS 510: 10).

Keep away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits

Exposure Limit: No OEL data available.

Monitoring Methods

No data available.

Engineering Controls

Facilities storing or utilizing this material should be equipped with adequate ventilation. Provide eyewash facility and safety shower if necessary.

Personal Protective Equipment for Routine Handling

Eyes: Wear safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin: Wear protective gloves and appropriate protective clothing.

Inhalation: Wear filtering respiratory protection (Filter type ABEK) when vapors/aerosols are generated.

Personal Protective Equipment for Spills

Same as routine handling: Wear protective eyeglasses, gloves, clothing and respiratory protection if needed.

Precautionary Measures

No smoking or eating at the work scene. Maintain good hygiene habits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Clear liquid
Color: Light yellow
Odor: No data available
Molecular Weight: 210.34 g/mol
Specific Gravity (Density) @ 25 °C: 0.963 g/cm³ (lit.)
Viscosity: Kinematic: No data available;
Dynamic: No data available
Freezing/Melting Point: No data available
Flash Point: 89 °C (closed cup)
Boiling Point: 117 °C at 41 hPa (lit.)
Vapor Pressure @ 25 °C: No data available
Vapor Density: No data available
Evaporation Rate: No data available
Solubility in Water: No data available
pH: No data available
Partition Coefficient (n-octanol/water): log Pow: 2.971
Volatile Content: No data available
Decomposition Temperature: No data available
Chemical Uses: Laboratory chemicals; Manufacture of substances

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under standard ambient conditions (room temperature) in closed containers. Hazardous Polymerization: Will not occur. Conditions to Avoid: Moisture, strong heating, ignition sources. Materials to Avoid: Strong oxidizing agents, acids, bases. Hazardous Decomposition Products: Carbon oxides, silicon oxides (in case of fire).

11. TOXICOLOGICAL INFORMATION

Acute Toxicology Data:

Oral: No data available

Inhalation: No data available

Dermal: No data available Special Hazard Information on Components:

Carcinogenicity: No data available; Not listed by relevant authorities.

Sensitization Rate: No data available (Respiratory or skin sensitization: No data available)

Teratogenicity: No data available (Reproductive toxicity: No data available)

Germ cell mutagenicity: No data available

Specific target organ toxicity - single exposure: Inhalation may cause respiratory irritation.

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available RTECS#: No data available

12.ECOLOGICAL INFORMATION

Environmental Fate and Distribution: No data available.Environmental Effects: No data available.Fate and Effects in Waste Water Treatment Plants: No data available.Ecotoxicity: No data available.Ecological Degradation: No data available.Biological Degradation: No data available.PBT and vPvB Assessment: This substance contains no components considered to be either PBT or vPvB at levels of 0.1% or higher.Endocrine Disrupting Properties: This substance does not contain components considered to have endocrine disrupting properties at levels of 0.1% or higher.

13.DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261): No data available. Waste generators must determine whether the discarded chemical is classified as a hazardous waste in accordance with relevant regulations.State or local laws may impose additional regulatory requirements regarding disposal. Consult state and local hazardous waste regulations to ensure compliance.

14.TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101): Not dangerous goods.

Ocean Shipment (IMDG): Not dangerous goods.

UN: -

Classification: -

Shipping Name: Not dangerous goods

Packaging Category: -

Packaging Information: No specific information; follow relevant transport regulations.

Shipping Notice: Keep away from heat, sparks and ignition sources. Avoid moisture.Air Shipment (IATA): Not dangerous goods.

15.REGULATORY INFORMATION

Contents of this MSDS comply with the requirements of Regulation (EC) No. 1907/2006.

TSCA Status: No data available.

DSL Status: No data available.

Other Regulations: Take note of Dir 94/33/EC on the protection of young people at work.

Reference to 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 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. Each user should review these recommendations in the specific context of the intended use and determine their appropriateness. To the best of our knowledge, the information contained herein is accurate. However, Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product. Abbreviations Explanation: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; CAS - Chemical Abstracts Service; EC - European Community; GHS - Globally Harmonized System; IMDG - International Maritime Dangerous Goods; IATA - International Air Transport Association; NIOSH - National Institute for Occupational Safety and Health; REACH - Regulation (EC) No 1907/2006; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; STOT SE - Specific target organ toxicity - single exposure; TRGS - Technical Rules for Hazardous Substances.

ISSUED BY

Anhui Bitehai New Materials Co., LTD

REVISION DATE 07.17.2025

REV. NO./REPL. SDS

GENERATED

SAFETY DATA SHEET STATUS

Approved.

DATE

SIGNATURE

07.17.2025

Eric