

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

Product identifier:

Identification as on the label/Trade name: BZD Reagent Part A

Relevant identification uses of the substance and uses advised against:

Identified uses: The BZD Reagent Part A is designed to identify unknown substances.

Uses advised against: No other uses are advised.

Details of the supplier of the Safety Data Sheet:

TN Scientific LLC
Knoxville, TN
37931 USA

Emergency telephone numbers:

24-hour Emergency Contact:
CHEMTREC 24-hour: +1-800-424-9300

Section 2: Hazards Identification

Classification of the substances or mixture:

The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories:

Flammable Liquid (Category 2)
Acute Toxicity (Category 3)
STOT SE (Category 1)
STOT RE (Category 2)
Aquatic Chronic (Category 3)

Hazard Statement:

H225
H301, H311, H331
H370
H373
H412

Label elements:

Hazard pictograms:



Signal Word: Danger.

Hazard Statements:

H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor/...if you feel unwell.
- P330 Rinse mouth.
- P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local regulations.

Section 4: First-Aid Measures

Description of first aid measures:

If inhaled: Keep patient calm, remove to fresh air, seek medical attention. Fresh air. Delayed effects possible after inhalation. Inform emergency services.

On skin contact: Immediately wash thoroughly with soap and water, seek medical attention. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed:

Overexposure may cause: headache, dizziness, respiratory disorders, nausea, acidosis, coma, blindness, Further symptoms are possible. Risk of respiratory disorders. Risk of blindness.

Indication of any immediate medical attention and special treatment needed: Symptomatic treatment (decontamination, vital functions). Medical monitoring for at least 24-48 hours.

Section 5: Fire-Fighting Measures

Extinguisher media:

Suitable extinguishing media: Water spray, dry powder, carbon dioxide, alcohol-resistant foam.

Special hazards arising from the substance or mixture: Carbon monoxide, Carbon dioxide. The substances/groups of substances mentioned can be released in case of fire. Vapors may form explosive mixture with air.

Advice for fire-fighters: Wear self-contained breathing apparatus and chemical-protective clothing.

Further information: Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. If exposed to fire, keep containers cool by spraying with water. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective clothing. Information regarding personal protective measures, see section 8. Keep unprotected persons away. Ensure adequate ventilation. Avoid all sources of ignition: heat, sparks, open flame. Avoid contact with the skin, eyes and clothing. Avoid inhalation. Take off immediately all contaminated clothing.

Environmental precautions: Discharge into the environment must be avoided. Suppress gases/vapors/mists with water spray jet. Prevent entry into sewage systems, ground and surface waters.

Methods for containment and cleaning up:

Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

Section 7: Handling and Storage

Precautions for safe handling:

Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing and protective equipment before entering eating areas. Hands and/or face should be washed before breaks and at the end of the shift. When using do not eat, drink or smoke. Adequate extraction of the vapors is necessary when working with open containers. When filling, transferring, or emptying of containers, adequate local exhaust ventilation is necessary.

Conditions for safe storage, including incompatibilities:

Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

Section 8: Exposure Controls and Personal Protection

Control parameters:

Occupational exposure limits:

CAS No.	Ingredient	Value
67-56-1	Methanol	LTTEL: 260 mg/m ³ / 200 ppm

Exposure controls:

Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) 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).
Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance (form): Liquid.

Color: Transparent yellow / brown.

Odor: Characteristic.

Odor threshold: No data available.

pH (concentration): No data available.

Melting point/range (°C): -97 °C

Boiling point/range (°C): 64 °C

Flash point (°C): 9.7 °C

Evaporation rate: No data available.

Flammability (solid, gas): Highly flammable liquid and vapor.

Upper/lower flammability/explosive limits: No data available.

Vapor pressure: 17 kPa @ 25 °C

Vapor density: No data available.

Relative density: 0.79 – 0.8

Water solubility (g/L): 1,000 g/L

n-Octanol/Water partition coefficient: No data available.

Auto-ignition temperature: 455 °C

Viscosity, dynamic (mPa.s): 0.54 – 0.59

Section 10: Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: No data available.

Incompatible materials: No data available.

Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity: Toxic if swallowed, inhaled or in contact with skin.

Methanol, CAS 67-56-1

Oral route: Adverse effect observed LD50 1 187 mg/kg bw

Inhalation route: Adverse effect observed LC50 43 700 mg/m³

Dermal route: Adverse effect observed LD50 17 100 mg/kg bw

Skin corrosion/irritation: No data available.

Serious eye damage/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.

STOT-single exposure: Causes damage to organs.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: No data available.

Section 12: Ecological Information

Toxicity: Harmful to aquatic life with long lasting effects.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT& vPvB assessment: No data available.

Section 13: Disposal Considerations

Waste treatment methods: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Product/packaging disposal: Dispose of as unused product.

Section 16: Other Information

Indication of changes: GHS aligned.

Relevant classification and H statements (number and full text):

H225 Highly flammable liquid and vapor.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H311 Toxic in contact with skin.

H330 Fatal in inhaled.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Training instructions: Use as instructed.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers: Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.