



catapowerinc.com

# Safety Data Sheet

Version 1.1

Revision date: 1 March 2023

## Section 1: Identification

### 1.1 Product identifier

Product name: Benzaldehyde tosylhydrazone  
Other names: Benzaldehyde *p*-toluenesulfonylhydrazone  
Product code: 01-07-0111  
CAS number: 1666-17-7

### 1.2 Relevant uses

Recommended use: Chemicals for laboratory evaluation

### 1.3 Supplier details

Manufacturer: Catapower, Inc.  
2265 E. Foothill Blvd.  
Pasadena, CA 91107  
info@catapowerinc.com  
Phone: (626) 657-0386

### 1.4 Emergency telephone number

Emergency phone: (800) 424-9300  
CHEMTREC is available at the number above 24 hours/day, 7 days/week.

## Section 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture

**GHS Classification: 29 CFR 1910 (OSHA HCS)**

Skin Irritation [Category 2], H315  
Eye Irritation [Category 2A], H319  
Specific target organ toxicity – single exposure [Category 3], Respiratory system, H335

For the full text of the H-statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H315 Causes skin damage.  
H319 Causes serious eye damage.  
H335 May cause respiratory damage.

Precautionary statement(s)

P261 Avoid breathing in dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only in well-ventilated area/

- P280 Wear protective gloves/ eye protection/ face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove person to fresh air and keep at rest in a comfortable position for breathing  
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes.  
+ P338 Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P403 + P233 Store in a well-ventilated area. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified

None.

## Section 3: Composition/information on ingredients

### 3.2 Mixtures

<b>Components:</b>	Benzaldehyde tosylhydrazone
Molecular weight:	274.34 g/mol
Chemical formula:	C <sub>14</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> S
Concentration:	> 98%
CAS number:	1666-17-7

## Section 4: First aid measures

### 4.1 Description of necessary first-aid instructions

General guidance:	Move out of contaminated area.
If inhaled:	Remove person to fresh air. Give artificial respiration if not breathing. Get medical advice/attention.
In case of skin contact:	Remove contaminated clothing. Wash off with plenty of soap and water. Get medical advice/attention.
In case of eye contact:	Rinse with water for at least 15 minutes. Remove contact lenses, if present, and continue rinsing. Get medical advice/attention.
If swallowed:	If conscious, rinse mouth with water. Get medical advice/attention.

### 4.2 Most important symptoms/effects

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 immediate medical attention and special treatment needed

No data available.

## Section 5: Firefighting measures

### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**5.2 Specific hazards arising from the chemical**

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides.

**5.3 Recommendations for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Section 6: Accidental release measures****6.1 Personal precautions, protective equipment, and emergency procedures**

Use personal protective equipment as recommended in Section 8. Avoid breathing aerosol. Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13

**Section 7: Handling and storage****7.1 Precautions for safe handling**

Use personal protective equipment as recommended in Section 8. Avoid breathing dust and aerosol. Avoid contact with skin, eyes, and clothing. Avoid ingestion. Use in appropriately exhaust ventilated area.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.  
Storage class (TRGS 510): 13: Non combustible Solids

**Section 8: Exposure controls / personal protection****8.1 Control parameters****Components with workplace control parameters**

Contains no substance with occupational exposure limit values.

**8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of workday.

**8.3 Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin protection**

For full or incidental contact, nitrile gloves with a minimum layer thickness of 0.11 mm are recommended.

**Body protection**

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

When a risk assessment indicates respiratory protection is required, 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).

**Section 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance:	Form: solid
Odor:	No data available
Odor threshold:	No data available
pH:	No data available
Melting/freezing point:	Melting point/range: 130-131 °C (266-268 °F) - lit.
Initial boiling point and range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient, n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive Properties:	

**Section 10: Stability and reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under proper storage conditions

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Oxidizing agents, strong bases

**10.6 Hazardous decomposition products.**

Carbon dioxide, Carbon monoxide, Nitrogen oxide (NO<sub>x</sub>), Sulfur oxides

**Section 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

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**

IARC: No data available

ACGIH: No data available

NTP: No data available

OSHA: No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

Inhalation – may cause respiratory damage.

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

## Section 12: Ecological information

- 12.1 Toxicity**  
No data available
- 12.2 Persistence and degradability**  
No data available
- 12.3 Bioaccumulation potential**  
No data available
- 12.4 Mobility in soil**  
No data available
- 12.6 Other adverse effects**  
No data available

## Section 13: Disposal considerations

- 13.1 Waste disposal methods**  
Must not be disposed in household garbage or in sewer. Dispose of excess product in appropriate containers with a licensed disposal company in accordance with all relevant regulations.
- 13.2 Contaminated packaging**  
Contaminated packaging should be discarded in the same manner as excess product.

## Section 14: Transport information

- 14.1 UN number**  
Not regulated
- 14.2 UN proper shipping name**  
Not regulated
- 14.3 Transport hazard class(es)**  
Not regulated
- 14.4 Packing group number**  
Not regulated

## Section 15: Regulatory information

- 15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture**  
**SARA 302 components**  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 components**  
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute health hazard.

**Massachusetts Right To Know components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know components**

Benzaldehyde tosylhydrazone

CAS-No.  
1666-17-7

**New Jersey Right To Know components**

Benzaldehyde tosylhydrazone

CAS-No.  
1666-17-7

**California Prop. 65 components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16: Other information****16.1 Disclaimer**

This information supplied in this document is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make their own investigation to determine the suitability of this information for their particular purposes.

**16.2 NFPA ratings**

Health = 0

Fire = 0

Reactivity = 0

Special hazards = none applicable

**16.2 HMIS ratings**

Health = 0

Fire = 0

Reactivity = 0

Personal protection = class C (safety glasses, gloves, and apron)