

# MSDS

# Material Safety Data Sheet

Date prepared: Sep 5, 2012

Date revised: N/A (first edition)

## Section 1 - General Information

**Chemical Name:** 2-Butanone-2,4-dinitrophenylhydrazone  
**CAS Reg. Number:** 958-60-1  
**Catalog Number:** 1ST1031  
**Manufacturer's Name:** A Chemtek, Inc.  
100 Barber Avenue  
Worcester, MA 01606, USA  
**Telephone Number:** 508-471-4121  
**Fax Number:** 508-845-9201  
*For R & D use only*

## Section 2 - Hazardous Ingredients/Identity Information

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]  
Skin irritation (Category 2)  
Eye irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)  
Classification according to EU Directives 67/548/EEC or 1999/45/EC  
Irritating to eyes, respiratory system and skin.

### Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Warning

### Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.  
Skin: May be harmful if absorbed through skin. May cause skin irritation.  
Eyes: May cause eye irritation.  
Ingestion: May be harmful if swallowed..

## Section 3 - Composition/Information on Ingredients

Formula:  $C_{10}H_{12}N_4O_4$   
Molecular Weight: 252.23g/mol  
CAS-No. 958-60-1

## Section 4 - First Aid Measures

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## Section 5 - Fire-Fighting Measures

### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - Accidental Release Measures

### Personal precautions

Avoid dust formation

### Environmental precautions

Do not let product enter drains.

### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## Section 7 - Handling and Storage

**Handling** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature: -20 °C  
Handle and store under inert gas

## Section 8 - Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection** For prolonged or repeated contact use protective gloves

**Eye protection** Safety glasses

**Hygiene measures** General industrial hygiene practice

## Section 9 - Physical and Chemical Properties

### Appearance:

Form Solid  
Color Orange

### Safety data

pH: not available  
Melting point: 239-241°C  
Boiling point: not available  
Flash point: not available  
Ignition temperature: not available  
Lower explosion limit: not available  
Upper explosion limit: not available  
Water solubility: not available

## Section 10 - Stability and Reactivity

**Storage stability** Stable under recommended storage conditions

**Materials to avoid** Strong oxidizing agents

**Hazardous decomposition products** Other decomposition products - no data available

## Section 11 - Toxicological Information

**Acute toxicity:** LDLO Intraperitoneal - mouse - 500 mg/kg

**Irritation and corrosion:** not available

**Sensitization:** not available

**Respiratory or skin sensitization:** Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

### Chronic exposure

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.  
Skin: May be harmful if absorbed through skin. May cause skin irritation.  
Eyes: May cause eye irritation.  
Ingestion: May be harmful if swallowed.

## Section 12 - Ecological Information

**Elimination information (persistence and degradability)**  
not available

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**Ecotoxicity effects:** not available

**Further information on ecology:** not available

## Section 13 - Disposal Considerations

**Product** Observe all federal, state, and local environmental regulations.

**Contaminated packaging** Dispose of as unused product.

## Section 14- Transport Information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

## Section 15 - Regulatory Information

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

## Section 16 - Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A Chemtek shall not be held liable for any damage resulting from handling or from contact with the above product.