



## MATERIAL SAFETY DATA SHEETS

6

Acetone thiosemicarbazide

### 1. CHEMICAL IDENTITY

**Chemical Name :** Acetone thiosemicarbazide

**Chemical Classification:** Toxic

**Trade Name :**

**Synonyms:** Acetone thiosemicarbazone; Hydrazinecarbothioamide, 2-(1-Methylethylidene)-; Thiosemicarbazone Acetone

**Formula :** C<sub>4</sub>H<sub>9</sub>N<sub>3</sub>S

**CAS No:** 1752-30-3

**UN No:** 2811

### Regulated Identification

**Shipping Name :** Acetone thiosemicarbazide, Toxic

**Hazchem Code :** 2X

**Codes / Label :** Class 6.1, Toxic

**Hazardous Waste ID No :**

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
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1	Acetone thiosemicarbazide	1752-30-3	3
2			4

### 2. PHYSICAL / CHEMICAL DATA

**Boiling Pt. °C:** Solid

**Physical State:** Solid

**Appearance:** Yellow crystalline solid.

**Melting Pt °C:** 196

**Vapour Pressure @ 35°C mmHg:**

**Odour:**

**Vapour Density(Air =1):**

**Solubility in water at 30°C g/100ml:**

**Others:**

**Specific Gravity (Water =1 ):**

**pH :**

### 3. FIRE / EXPLOSION HAZARD DATA

**Flammability :**

**LEL:**

**Flash Point °C in OC:**

**TDG Flammability:**

**UEL:**

**Flash Point °C in CC:**

**Autoignition Temperature °C :**

**Explosion sensitivity to impact:**

**Explosion sensitivity to static Electricity:**

**Hazardous Combustion Products :** Fire may produce irritating, corrosive and/or toxic fumes of nitrogen oxides and sulfur oxides.

**Hazardous Polymerization :**

**Combustible Liquid:** No

**Explosive Material:**

**Corrosive Material**

**Flammable Material:**

**Oxidiser :**

**Others:**

**Pyrophoric Material:**

**Organic Peroxide :**

### 4. REACTIVITY DATA

**Chemical Stability :**

**Incompatibility with other material :** Contact with strong oxidizers may cause fire and explosions.

**Reactivity :**

**Hazardous** :  
**Reaction Products**

## 5. HEALTH HAZARD DATA

**Routes of entry:** Inhalation, Ingestion, skin and eyes

### Effects of Exposure / Symptoms:

Inhalation, ingestion, or skin contact with material may cause severe injury or death. Effects of contact or inhalation may be delayed. Contact with molten substance may cause severe burns to skin and eyes.

### Emergency Treatment :

**Inhalation:** Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth respiration.

**Skin:** Remove and isolate contaminated clothing and shoes. Immediately flush with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin.

**Eyes:** Immediately flush with running water for at least 20 minutes.

**Ingestion:** Seek medical assistance.

**LD50 (oral-rat) mg/kg:** 48.5mg/kg

**STEL:**

**LC50 (rat) mg/kg:** 72mg/m<sup>3</sup>

**Odour Threshold:**

**Permissible  
Exposure Limit:**

**TLV (ACGIH) :**

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	2	1	0	

## 6. PREVENTIVE MEASURES

**Personal Protective Equipment :** Wear appropriate protective gloves, clothing and goggles. Wear positive pressure self-contained breathing apparatus (SCBA).

**Handling :** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Storage :** Store in tightly closed containers in a cool, well ventilated area. Sources of ignition such as smoking and open flames, are prohibited where this chemical is used, handled, or stored in a manner that could create a potential fire or explosion hazard.

**Precautions :** Contact lenses should not be worn when working with this chemical.

## 7. EMERGENCY / FIRST AID MEASURES

### FIRE:

**Fire Extinguishing Media :** Extinguish using agent most appropriate for surrounding fire.

**Special Procedure :**

**Unusual Hazards :** When heated to decomposition, it emits very toxic fumes of nitrogen oxide and sulfur oxides.

### EXPOSURE: First Aid Measures:

**Inhalation:** Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth respiration.

**Skin:** Remove and isolate contaminated clothing and shoes. Immediately flush with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin.

**Eyes:** Immediately flush with running water for at least 20 minutes.

**Ingestion:** Seek medical assistance.

### Antidotes / Dosages:

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**SPILLS :**

**Steps To Be Taken** : Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.  
Do not get water inside containers.

**Waste Disposal Method:****8. ADDITIONAL INFORMATION / REFERENCES**

Contact with metals may evolve flammable hydrogen gas. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

**9. MANUFACTURERS / SUPPLIERS DATA**

<b>NAME OF FIRM :</b>	<b>Contact person</b>
<b>MAILING ADDRESS :</b>	<b>in Emergency :</b>
<b>TELEPHONE / TELEX NOS :</b>	<b>Local Bodies involved :</b>
<b>TELEGRAPHIC ADDRESS :</b>	<b>Standard Packing :</b>
<b>OTHERS :</b>	<b>Trem Card Details / Ref :</b>

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