# **Material Safety Data Sheet**

Date prepared: May 28, 2012 Date revised: N/A (first edition)

**Section 1 - General Information** 

**Chemical Name:** Semicarbazide hydrochloride

CAS Reg. Number: 563-41-7
Catalog Number: 1ST1407
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

**Emergency Overview OSHA Hazards** 

Toxic by ingestion, Reproductive hazard

**GHS Classification** 

Acute toxicity, Oral (Category 3)

GHS Label elements, including precautionary statements

Pictogram
Signal word
Danger

Hazard statement(s)

H301 Toxic if swallowed.

Precautionary statement(s)

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**HMIS Classification** 

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 0
Physical hazards: 0

**NFPA Rating** 

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

**Potential Health Effects** 

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.Skin May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** Toxic if swallowed.

**Section 3 - Composition/Information on Ingredients** 

Formula: CH<sub>5</sub>N<sub>3</sub>O·HCl Molecular Weight: 111.53g/mol CAS-No. 563-41-7

# **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

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

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

#### **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.

# **Section 7 - Handling and Storage**

**Handling** Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

preventive fire protection.

**Storage** Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

#### **Section 8 - Exposure Controls/Personal Protection**

Contains no substances with occupational exposure limit values.

#### 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

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.

#### **Body Protection**

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).

# **Section 9 - Physical and Chemical Properties**

#### Appearance:

Form Powder Colour White

#### Safety data

pH: not available

Melting point: Melting point/range: 175 - 177 °C (347 - 351 °F) - dec.

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
Other safety information not available

# Section 10 - Stability and Reactivity

Storage stability Stable under recommended storage conditions

Materials to avoid Strong oxidizing agents

Conditions to avoid not available

# Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

# **Material Safety Data Sheet**

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Other decomposition products - no data available

### **Section 11 - Toxicological Information**

Acute toxicity
Oral LD50

LD50 Oral - rat - 123 mg/kg

Irritation and corrosion:not availableSensitization:not availableRespiratory or skin sensitization:not available

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, ACGIH, NTP, or OSHA.

#### 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: Toxic if swallowed.

## **Section 12 - Ecological Information**

**Toxicity** not available

Elimination information (persistence and degradability)

not available

**Ecotoxicity effects:** not available **Further information on ecology:** not available

#### **Section 13 - Disposal Considerations**

**Product** Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging Dispose of as unused product.

#### **Section 14- Transport Information**

DOT (US)

UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solids, organic, n.o.s. (Semicarbazide hydrochloride)

Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No

**IMDG** 

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Semicarbazide hydrochloride)

Marine pollutant: No

**IATA** 

UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (Semicarbazide hydrochloride)

#### **Section 15 - Regulatory Information**

## **OSHA Hazards**

Toxic by ingestion, Reproductive hazard

#### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section

Semicarbazide hydrochloride CAS-No.563-41-7

# SARA 313 Components

SARA 313: 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

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Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components

Semicarbazide hydrochloride CAS-No.563-41-7

Pennsylvania Right To Know Components

Semicarbazide hydrochloride CAS-No.563-41-7

**New Jersey Right To Know Components** 

Semicarbazide hydrochloride CAS-No.563-41-7

California Prop. 65 Components

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

# **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.