




# Safety Data Sheet

## 1. Product Identifier and Company Identification

<b>Product name</b>	: Sulfur Tapers Sticks	
<b>HBCC SDS number</b>	: HA11531	
<b>Synonym</b>	: Ammonia Leak Detectors	
<b>Product use and Restrictions</b>	: Refer to label or call	
<b>Manufacturer</b>		
<b>Contact Address</b>	: Corporate Headquarters Hill Brothers Chemical Company 1675 North Main Street Orange, California 92867 714-998-8800 800-821-7234	: Corporate Safety & Compliance Hill Brothers Chemical Company 7121 West Bell Road, Suite 250 Glendale, Arizona 85308 623-535-9955 - Office 623-535-9944 - Fax
<b>Emergency telephone Number (Chemtrec)</b>	: 800-424-9300	
<b>Website</b>	: <a href="http://hillbrothers.com">http://hillbrothers.com</a>	

## 2. Hazard Identification

<b>Classification</b>	: Flammable Solid: Category 2 Acute Toxicity; Oral: Category 4 Acute Toxicity; Inhalation: Category 3 Skin Corrosion/Irritation: Category 2 Specific Target Organ Toxicity (single exposure): Category 3
<b>Signal Word</b>	: DANGER
<b>Pictogram(s)</b>	: 
<b>Hazard Statements</b>	: H228: Flammable Solid H331: Toxic if inhaled. H302: Harmful if swallowed. H315: Causes skin irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.

### Precautionary Statements

<b>Response</b>	: P304+340+P311: IF INHALED: Remove person to fresh air and keep Comfortable for breathing. Call a POISON CENTER or doctor. P330+P301+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER
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or doctor if you feel unwell.  
 P302+P352: IF ON SKIN (or hair): Wash with plenty of water.  
 P332+P313: If skin irritation occurs: Get medical advice/attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.

**Prevention** : P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P240: Ground and bond container and receiving equipment.  
 P241: Use explosion-proof equipment.  
 P261: Avoid breathing dust and/or fumes.  
 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.  
 P280: Wear protective gloves, protective clothing, and eye and face protection.  
 P370+P378: In case of fire: Use water spray, fog, or foam to extinguish.

**Storage** : P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P405: Store locked up

**Disposal** : P501: Dispose of contents and container in accordance with local, regional, national, and international regulations.

<b>3. Composition/Information on Ingredients</b>
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CAS Number	Ingredient Name	Weight %
7704-34-9	Sulfur	100

<b>4. First Aid Measures</b>
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**Summary of First Aid Measures**

**Ingestion** : Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated. If large amounts are swallowed, immediately call a physician.

**Inhalation** : Sulfur dioxide gas generated by lighted detector can cause severe irritation to nose, throat and lungs. Avoid inhaling fumes. Use of taper is local and temporary. Extinguish Sulfur taper and move to fresh air. Consult a physician should symptoms or irritation persist.

**Skin** : Extinguish Sulfur taper, ointment. Wash contaminated areas with soap and water. Obtain medical attention if irritation or redness develops.

**Eyes** : Extinguish Sulfur taper, rinse eyes carefully for at least 15 minutes. Consult a physician should irritation persist.

**Medical Conditions** : N/A

**Effects of Overexposure** : The burning of a sulfur taper can be temporarily irritating to the eyes if held too close.

**Summary of Acute Health Hazards**

- Ingestion** : Sulfur has a low order of toxicity.
- Inhalation** : Sulfur dioxide gas generated by lighted detector can cause severe irritation to nose, throat and lungs.
- Skin** : Upon continued or repeated contact may cause irritation of the skin. Avoid flame coming in contact with body tissue.
- Eyes** : Sulfur dioxide gas generated by lighted detector can cause severe irritation.
- Note to Physicians** : N/A

**Summary of Chronic Health** : N/A

**5. Fire Fighting Measures**

- Extinguishing** : Any extinguisher suitable for Class B fires, dry chemical, CO2, Water, sand or fine earth to exclude oxygen.
- Special Exposure Hazards** : Burning sulfur will flow and emit sulfur dioxide (SO2), a toxic, irritating, and suffocating gas that can cause severe lung damage and death.
- Special Protective** : Wear self-contained breathing apparatus.
- Fire Fighting Procedures** : Fire may restart after it has been extinguished.
- NFPA Rating** : Health - 2  
Flammability - 1  
Instability - 0



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

**Uniform Fire Code Rating** : N/A

## 6. Accidental Release Measures

- Personal Precautions** : Do not use if ammonia concentration in air is in range of 15% to 28%
- Emergency Procedures** : N/A
- Methods of Containment And Clean-Up** : N/A

## 7. Handling and Storage

- Safe Handling** : Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure.
- Storage** : Sulfur is incompatible with a number of chemical materials including, but not limited to, chlorates, nitrates, other oxidizers, carbides, halogens, phosphorous.
- Work/Hygienic Practices** : Wash hands thoroughly with soap and water before eating, drinking, smoking, or using toilet facilities.
- Ventilation** : General ventilation

## 8. Exposure Controls/Personal Protection

**Occupational Exposure Limits** :

Chemical Name: Sulfur Taper Sticks			
Exposure Limits (TWAs) in Air			
CAS Number	ACGIH TLV	OSHA PEL	STEL
7704-34-9	N/A	N/A	N/A

- Protective Equipment** : Do not allow flame to contact body tissue or any combustible material – thick leather gloves recommended.
- Eye Protection** : Safety glasses
- Respiratory** : Avoid inhaling fumes generated by lighted detector

## 9. Physical and Chemical Properties

<b>Appearance:</b> Yellowish solid strip, approximately 8" long x 1/8" cellulose cordage impregnated with Sulfur.	<b>Odor:</b> No odor
<b>Odor Threshold:</b> N/A	<b>pH:</b> N/A
<b>Melting Point:</b> 234.5-246.2°F; 112.5-119°C	<b>Initial Boiling Point/Range:</b> 832°F; 445°C
<b>Flash Point:</b> 405°F; 207°C	<b>Evaporation Rate (BuAc=1):</b> N/A
<b>Autoignition Temperature:</b> 450°F; 232°C	<b>Lower/Upper Explosive Limit:</b> 35g/M <sup>3</sup> / 1400g/M <sup>3</sup>
<b>Vapor Pressure (mmHg):</b> N/A	<b>Vapor Density (Air=1):</b> N/A
<b>Specific Gravity (water=1)</b> 2.07	<b>Solubility in Water:</b> Insoluble
<b>Decomposition Temperature:</b> N/A	<b>% Volatiles:</b> N/A
<b>Molecular Weight:</b> N/A	<b>Specific Gravity (Water=1):</b> 2.07

## 10. Stability and Reactivity

<b>Reactivity</b>	: N/A
<b>Chemical Stability</b>	: Stable
<b>Possibility of Hazardous Reactions or Polymerizations</b>	: Hazardous Polymerization will not occur
<b>Conditions to Avoid</b>	: Potentially explosive mixtures are formed when in contact with oxidizing materials. Do not use if ammonia concentration in air is in range of 15% to 28%.
<b>Incompatible Materials</b>	: Chlorates, nitrates, charcoal, metals, carbides, halogens, and other oxidizers.
<b>Hazardous Decomposition Products</b>	: Upon oxidation will form oxides of sulfur including sulfur dioxide and sulfur trioxide. Formation of hydrogen sulfide may occur.

## 11. Toxicological Information

**Acute and Chronic Effects** : Dust particle may be irritating to the eye, nose, and skin.

### Routes of Exposure

<b>Inhalation</b>	: Yes
<b>Ingestion</b>	: Yes
<b>Skin</b>	: Yes
<b>Eyes</b>	: Yes

**Numerical Measures of** : Sulfur (7704-34-9) inhalation LC50 Rat>9.23 mg/L 4 h; Oral LD50 Rat >3000 mg/Kg; Dermal LD50 Rabbit >2000 mg/Kg Toxicity

**Chronic Toxicity** : N/A

**Carcinogenicity** :

Product Name: Sulfur Taper Sticks					
ACGIH	IARC	EPA	NIOSH	NTP	OSHA
N/A	No	N/A	N/A	No	No

**TARGET ORGANS** :

## 12. Ecological Information

**Ecotoxicity** : N/A

**Persistence and Degradability** : N/A

**Bioaccumulative Potential** :

Product/Ingredient	Log <sub>pow</sub>	BCF	Potential
N/A	N/A	N/A	N/A

**Mobility in Soil** : N/A

## 13. Disposal Considerations

**Disposal of Container** : Wastes should be handled in accordance with local, state, and federal regulations.

## 14. Transport Information

**UN#** : NA1350  
**Proper Shipping Name** : Sulfur  
**Hazard Class/Division** : 9  
**Packing Group** : III  
**Marine Pollutant** :  
**Special Precautions** :  
**Emergency Response Guidebook** :  
**Placard Advisory** :

## 15. Regulatory Information

**SARA 302 Extremely Hazardous Substances (EHS)** : No chemical in this product is listed as an Extremely Hazardous Substance (EHS) under Section 302 of EPCRA.

**SARA 304 Extremely Hazardous Substances (EHS) Release Notification** : No chemical in this product is listed as an Extremely Hazardous Substance (EHS) which, if released to the environment in quantities at or above the substance's Reportable Quantity (RQ), would require reporting to the SERC and LEPC under Section 304 of EPCRA.

**SARA 311/312 Hazards** :

<b>SARA 311/312 Hazards</b>				
<b>Acute</b>	<b>Chronic</b>	<b>Flammability</b>	<b>Pressure</b>	<b>Reactivity</b>
Yes	No	Yes	No	No

**SARA 313 Reportable Chemicals** : No chemical in this product is subject to annual emissions, transfers, or waste management reporting under the Community-Right-to-Know provisions of EPCRA Section 313, also known as the Toxic Release Inventory (TRI) Report or Form R.

**CERCLA Hazardous Substances** : No chemical in this product is listed as a CERCLA hazardous substance subject to the National Response Center (NRC) release reporting requirements.

**Clean Air Act (CAA) Section 112(r) Air Pollutants** : No chemical in this product is listed as an air pollutant under the U.S. Clean Air Act, Section 112(r) (40 CFR 61).

**California Prop 65 Chemicals** : This product does not contain any chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

**Hazard Label Warning** : This product requires the following hazard label warning:  
Hazard Class 9

**TSCA (Toxic Substances Control Act)** : All chemical substances in this product are listed on the U.S. TSCA Inventory List.

### **ACRONYMS:**

CAS # - Chemical Abstract Services Registry Number

CFR - Code of Federal Regulations

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

EPCRA - Emergency Planning and Community Right-to-Know Act

LEPC - Local Emergency Planning Committee

SERC - State Emergency Response Commission

## 16. Other Information

<b>Revision date</b>	: 01/04/2016
<b>Supersedes</b>	: 11/11/2015
<b>First Issue</b>	: 01/19/1990
<b>Chemical Family/Type</b>	: Sulfur
<b>Section(s) changed since last revision</b>	: MSDS to First Issue SDS Conversion

**IMPORTANT!** Read this SDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This SDS has been prepared in accordance with the Globally Harmonized System of Chemical and Labeling of Chemicals (GHS) Fifth Edition and the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The SDS information is based on sources believed to be reliable. Available data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control; **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks and exercise appropriate precautions for protection of employees and others prior to use.