

## 1. Product and Company Identification

<b>Product Code:</b>	00013		
<b>Product Name:</b>	THAT FLOWABLE SULFUR		
<b>Trade Name:</b>	THAT Flowable Sulfur; THAT Sulfur; THAT 25% Sulfur		
<b>Company Name:</b>	Stoller USA, Inc.	<b>Phone Number:</b>	
	4001 W Sam Houston Pkwy N		1 (713)461-1493
	Suite 100		
	Houston, TX 77043		
<b>Email address:</b>	stoller@stollerusa.com		
<b>Emergency Contact:</b>	Chemtrec		1 (800)424-9300
<b>Synonyms:</b>	Sulfur, liquid sulfur.		

## 2. Hazards Identification

**Serious Eye Damage/Eye Irritation, Category 2B**  
**Acute Toxicity: Skin, Category 5**  
**Acute Toxicity: Inhalation, Category 5**  
**Specific Target Organ Toxicity (single exposure), Category 3**  
**Acute Toxicity: Oral, Category 5**  
**Specific Target Organ Toxicity (repeated exposure), Category 2**  
**Aquatic Toxicity (Chronic), Category 4**



**GHS Signal Word:** **Warning**

**GHS Hazard Phrases:**

- H303 - May be harmful if swallowed.
- H313 - May be harmful in contact with skin.
- H320 - Causes eye irritation.
- H333 - May be harmful if inhaled.
- H336 - May cause drowsiness or dizziness.
- H373 - May cause damage to through prolonged or repeated exposure.
- H413 - May cause long lasting harmful effects to aquatic life.

**GHS Precaution Phrases:**

- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- 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.
- P273 - Avoid release to the environment.
- P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P235+410 - Keep cool and protect from sunlight.
- P233 - Keep container tightly closed.

**GHS Response Phrases:**

- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P310 - Immediately call a POISON CENTER or doctor/physician.
- P302+352 - IF ON SKIN: Wash with plenty of soap and water.
- P362 - Take off contaminated clothing and wash before re-use.
- P332+313 - If skin irritation occurs, get medical advice/attention.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.
- P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

<b>GHS Storage and Disposal Phrases:</b>	<p>contact lenses, if present and easy to do. Continue rinsing.  P337+313 - If eye irritation persists, get medical advice/attention.  P370+378 - In case of fire, use water, foam, carbon dioxide, dry chemicals, etc. to extinguish.  P391 - Collect spillage.  P390 - Absorb spillage to prevent material damage.  P403+233 - Store container tightly closed in well-ventilated place.  P405 - Store locked up.  P410 - Protect from sunlight.  P403+235 - Store in cool/well-ventilated place.  P402 - Store in a dry place.  P501 - Dispose of contents/container to treatment at a permitted facility or as advised by your local regulatory authority.</p>
<b>Potential Health Effects (Acute and Chronic):</b>	<p>Acute: Depending on the duration of contact, overexposure can irritate the eyes, skin, mucous membranes and any other exposed tissue.</p>
<b>Inhalation:</b>	<p>Chronic: Not known. Expected toxicity hazard: moderate.  Causes respiratory tract irritation. Olfactory fatigue may occur. Can produce delayed pulmonary edema. May cause central nervous system effects such as nausea and headache.</p> <p>Prolonged exposure to low concentrations of vapors may cause sore throat, headache, nausea, dizziness and even unconsciousness.</p>
<b>Skin Contact:</b>	<p>May cause discomfort, skin irritation or rash unless treated promptly.</p>
<b>Eye Contact:</b>	<p>Contact with product may cause redness, slight to severe eye irritation.</p>
<b>Ingestion:</b>	<p>May cause malaise, nausea, burning sensation in stomach, gastrointestinal damage. Large doses may cause liver and kidney damage or even death.</p>

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
7704-34-9	Sulfur	~52.0 %	WS4250000

### 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	<p>Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. If necessary, also rescuers must be attended. Always bring with victim a copy of label and SDS of product to health professional.</p>
<b>In Case of Inhalation:</b>	<p>Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation.</p>
<b>In Case of Skin Contact:</b>	<p>Move patient to fresh air. Supplemental oxygen may be needed. Assure mucous does not obstruct airways. Seek medical attention if victim's breathing becomes difficult.  Wipe off product and immediately wash affected area with abundant soap and water. Remove contaminated clothing taking care not to impregnate eyes. Seek medical attention if irritation occurs.</p>
<b>In Case of Eye Contact:</b>	<p>Holding eyelids apart, immediately flush eyes with copious amounts of clean water for at least 15 minutes. Seek medical attention should severe irritation occur.</p>
<b>In Case of Ingestion:</b>	<p>Immediately contact a physician or poison control center for treatment advice. Victim should drink milk, egg whites or large quantities of water. DO NOT INDUCE VOMITING. Never give anything by mouth to someone who is unconscious, having convulsions, or</p>

unable to swallow.

**Note to Physician:** Symptomatic treatment.

## 5. Fire Fighting Measures

**Flash Pt:** N.A.

**Explosive Limits:** LEL: N.A. UEL: N.A.

**Autoignition Pt:** N.A.

**Suitable Extinguishing Media:** Water spray may cause frothing. For large fires, use water spray, fog or regular foam. Contact professional fire-fighters immediately. For small fires, use dry chemical, carbon dioxide, sand, earth, water spray or regular foam. Cool containers with flooding quantities of water until well after fire is out.

Use all means adequate to fight surrounding fire, like water fog, foam, carbon dioxide, dry chemicals, etc.

**Fire Fighting Instructions:** None specific for this product, however, it is suggested that firefighters do not use direct stream of water; it is recommended they wear self-contained breathing apparatus and full protective equipment, such as chemical resistant clothing.

**Flammable Properties and Hazards:** Toxic fumes under fire conditions, like SO, SO<sub>2</sub>, CO, CO<sub>2</sub>, etc.

## 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** In case of a large spill, protect people by clearing and isolating the affected area. Such releases should be responded to by trained personnel using pre-planned procedures. In the event of an incidental release, minimum Personal Protective Equipment must be worn: latex or rubber gloves and rubber boots, goggles or full face-shield and coveralls or long sleeved shirt and pants.

It is necessary to contain the spill into the smallest area possible by diking, scooping, etc. and recover the product into an appropriate container, labeling it accordingly. If product is clean, use it as intended following original label directions; should it get contaminated, salvage for proper disposal as waste.

Absorb residual product onto dry carrier such as dirt, sand or any other absorbent material, then collect in covered, labeled containers and dispose of as dry waste in accordance with Federal, State, and Local waste disposal regulations.

## 7. Handling and Storage

**Precautions To Be Taken in Handling:** All personnel who handle this material should be trained to work with it safely. Avoid breathing vapors or mist; use in well-ventilated location. Empty containers may contain residual liquid or vapors, therefore, should also be handled with care.

**Precautions To Be Taken in Storing:** Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. Keep away from reach of children and pets. Store away from food, feed, clothing materials and living quarters. Do not rinse containers and reuse for other purposes. Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7704-34-9	Sulfur			

<b>Respiratory Equipment (Specify Type):</b>	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.
<b>Eye Protection:</b>	Safety glasses should be worn in any type of operation with chemicals.
<b>Protective Gloves:</b>	Protective gloves.
<b>Other Protective Clothing:</b>	Long-sleeved shirt, long pants and protective shoes should be worn as a good safety practice.
<b>Engineering Controls (Ventilation etc.):</b>	General ventilation is usually adequate. Local exhaust may be used depending on working conditions. An eye bath and washing facilities should be readily available.
<b>Work/Hygienic/Maintenance Practices:</b>	As a general rule, do not eat, drink, smoke, and/or chew gum or tobacco when handling chemicals. Wash thoroughly after handling this product. Remove all dirty or contaminated clothing and wash it before reusing.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
<b>Appearance and Odor:</b>	Viscous liquid, yellow color. Very slight rotten egg odor.
<b>Melting Point:</b>	N.A.
<b>Boiling Point:</b>	N.E.
<b>Flash Pt:</b>	N.A.
<b>Evaporation Rate:</b>	< 1
<b>Flammability (solid, gas):</b>	
<b>Explosive Limits:</b>	LEL: N.A.      UEL: N.A.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	30 MM_HG
<b>Vapor Density (vs. Air = 1):</b>	> 1
<b>Specific Gravity (Water = 1):</b>	1.40 - 1.44
<b>Solubility in Water:</b>	See Notes
<b>Solubility Notes:</b>	Miscible but insoluble.
<b>Percent Volatile:</b>	
<b>Autoignition Pt:</b>	N.A.
<b>Molecular Formula &amp; Weight:</b>	S      32.06

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Instability:</b>	High temperatures, Toxic fumes may be generated under fire conditions or by contact with incompatible materials. ignition sources, dust generation.
<b>Incompatibility - Materials To Avoid:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition or Byproducts:</b>	Toxic fumes under fire conditions, like SO, SO2, CO, CO2, etc.
<b>Possibility of Hazardous Reactions:</b>	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Hazardous Reactions:</b>	

## 11. Toxicological Information

**Toxicological Information:** Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.

Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans.

Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans.

Reproductive Toxicity: The components of this product are not reported to produce toxic reproductive effects in humans.

**Carcinogenicity/Other Information:** CAS# 7704-34-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

No component is listed as a carcinogenic by IARC, NTP, OSHA, and ACGIH.

**Carcinogenicity:** NTP? No      IARC Monographs? No      OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7704-34-9	Sulfur	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

**General Ecological Information:** The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at preventing environmental contamination.

Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures." Due to its nutritional nature, may cause eutrophication if discharged in bodies of water.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section 15. If the word "YES" is marked next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.

## 13. Disposal Considerations

**Waste Disposal Method:** Waste disposal must be done following all Federal, State and Local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority.

## 14. Transport Information

**GHS Classification:** Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation  
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin  
Acute Toxicity: Inhalation, Category 5 - Warning! May be harmful if inhaled  
Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness  
Acute Toxicity: Oral, Category 5 - Warning! May be harmful if swallowed  
Specific Target Organ Toxicity (repeated exposure), Category 2 - Warning! May cause damage to {<target organs>} through prolonged or repeated exposure  
Aquatic Toxicity (Chronic), Category 4 - May cause long lasting harmful effects to aquatic life



**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated. Trade Name: THAT FLOWABLE SULFUR

**DOT Hazard Class:**

**UN/NA Number:**

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Not Regulated. Trade Name: THAT FLOWABLE SULFUR

**UN Number:**

**Packing Group:**

**Hazard Class:**

**IMDG MFAG Number:** N/A

**IMDG EMS Page:**

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Not Regulated. Trade Name: THAT FLOWABLE SULFUR

**Additional Transport Information:** Placards / Markings: Not Applicable

## 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7704-34-9	Sulfur	No	No	No

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Acute (immediate) Health Hazard
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Chronic (delayed) Health Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Fire Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sudden Release of Pressure Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7704-34-9	Sulfur	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP. 65: No; CA TAC, Title 8: Title 8

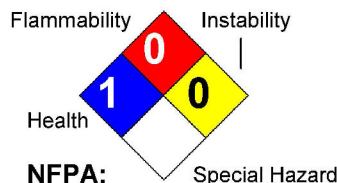
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
7704-34-9	Sulfur	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes - 1350; REACH: Yes - (R), (P)

**Regulatory Information Statement:**

If this product contains components designated as CERCLA Reportable Quantity (RQ) Substance, Section 103 of CERCLA requires the "person in charge" of a facility or vessel, as soon as he or she has knowledge of a release of a hazardous substance in an amount equal to or greater than an RQ, to report the release immediately to the National Response Center in Washington, DC. The NRC number is 1-800-424-8802, or 1 (202) 267-2675.

## 16. Other Information

**Revision Date:** 06/01/2015

**Hazard Rating System:**

**Additional Information About This Product:**

**Company Policy or Disclaimer:** Stoller USA, Inc., believes the information contained in this Safety Data Sheet is accurate based on the information provided by reputable suppliers of our raw materials. However,

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