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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878 and US OSHA HCS 2015

### Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: Z-THATS

Product Name: THAT FLOWABLE SULFUR

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For agricultural use only

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Stoller Phone Number:

9090 Katy Freeway 1 (713)461-1493

Suite 400

Houston, TX 77024 United States of America

Web site address: www.stollerusa.com

Email address: compliance@stollerusa.com

**Information**: 1 (800)539-5283

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC, In the US and Canada call 1 (800)424-9300

CHEMTREC, From other countries call +1 (703)527-3887

### Section 2. Hazards Identification

#### 2.1 Classification of the Substance or Mixture:

Skin Irritation, Category 2 Eye Irritation, Category 2B

#### 2.2 Label Elements:



GHS Signal Word: Warning

Hazard-determining components of labelling:

Sulfur

#### **GHS Hazard Phrases:**

H315 - Causes skin irritation.

H320 - Causes eye irritation.

#### **GHS Precautionary Phrases:**

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

#### **GHS Response Phrases:**

P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment see ... on this label.

P332+313 - If skin irritation occurs, get medical advice/attention.

P337+313 - If eye irritation persists, get medical advice/attention.

P362+364 - Take off contaminated clothing and wash it before reuse.

#### **GHS Storage and Disposal Phrases:**

No phrases apply.

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UFI:

2.3 Adverse Human Health Effects and Symptoms:

**2.3.1 Inhalation:** May be irritating.

**2.3.2 Skin Contact:** May cause skin discomfort, irritation, or rash. Harmful if absorbed through broken skin.

**2.3.3 Eye Contact:** Contact may cause eye irritation.

**2.3.4 Ingestion:** May cause gastrointestinal irritation, nausea and vomiting.

## Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
7704-34-9 WS4250000	Sulfur 01-2119487295-27	<55.0 %	231-722-6 016-094-00-1	Skin Corr. 2: H315
NA NA	( Trade Secret )NA	<50.0 %	NA NA	No data available.

### Section 4. First Aid Measures

**4.1 Description of First Aid**Victims of severe exposure to chemicals must be taken to health providing centers for

Measures: medical attention. Always bring with victim a copy of label and SDS of product to health

professional.

In Case of Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give

oxygen. Call a physician if no improvement on patient condition.

In Case of Skin Remove product and immediately wash affected area with soap and water for 15

**Contact:** minutes. Do not apply greases or ointments. Remove contaminated clothing, taking care

not to impregnate eyes. Launder contaminated clothing. Seek medical attention if

irritation occurs.

In Case of Eye Hold eyelids apart and immediately flush eyes with plenty of water for at least 15

Contact: minutes. Call a physician.

**In Case of Ingestion:** Immediately call a POISON CENTER or doctor/physician. Wash mouth out with water.

Never give anything by mouth to an unconscious person.

**Note for the Doctor:** Treat symptomatically and supportively.

# **Section 5. Fire Fighting Measures**

5.1 Suitable Extinguishing Use water spray, dry chemical, carbon dioxide, or chemical foam. Use extinguishing

**Media:** measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable None known.

**Extinguishing Media:** 

5.2 Flammable Properties None known.

and Hazards:

Hazardous CombustionNone known.

**Products:** 

Flash Pt: N.E.

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

**Autoignition Pt:** N.E.

**5.3 Fire Fighting** As in any fire, wear a self-contained breathing apparatus in pressure-demand,

**Instructions:** MSHA/NIOSH (approved or equivalent), and full protective gear.

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### **Section 6. Accidental Release Measures**

6.1

and Emergency **Procedures:** 

Protective Precautions, In case of a large spill, clear the affected area and protect people. Such releases should **Protective Equipment** 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.

6.2 **Environmental** 

Precautions:

Do not allow to enter drains or waterways.

6.3 **Methods and Material** For Containment and Cleaning Up:

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

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

## Section 7. Handling and Storage

7.1 **Precautions To Be** Taken in Handling: Use with adequate ventilation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, or clothing. Avoid ingestion and inhalation. Use only in a well-ventilated area. Empty containers may contain residual liquid or vapors and therefore should be handled the same as full containers.

Extreme caution should be taken when entering or cleaning storage tanks or tank trucks. Fluid sulfur may evolve into toxic sulfur dioxide or hydrogen sulfide gas and be present. Confined space entry training is required before entering confined spaces.

7.2 **Precautions To Be** Taken in Storing:

Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Store only in shipping container: Bulk material can be stored in polyethylene, aluminum or stainless steel tanks. Keep containers closed and away from oxidizing agents. Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. Store away from food, feed, clothing materials and living quarters. Whenever possible, place chemicals on secondary containers or diked area.

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

8.1 **Exposure Parameters:** 

> Recommended **Exposure Limits:**

No occupational exposure limits have been established for this mixture.

8.2 **Exposure Controls:** 

8.2.1 Engineering Controls (Ventilation etc.):

General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions. An eye bath, safety shower and washing facilities should be readily available.

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8.2.2 Personal protection equipment:

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166. Use full face-shield when there is any likelihood of splashes.

**Protective Gloves:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal

technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good

laboratory practices. Wash and dry hands.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers.

**Other Protective** 

Clothing:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear long sleeve shirt, long

pants, and protective shoes with socks.

Respiratory Equipment A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2

(Specify Type): requirements or European Standard EN 149 must be followed whenever workplace

conditions warrant respirator use. If the respirator is the sole means of protection, use a

full-face supplied air respirator.

Work/Hygienic/Mainten Handle in accordance with good industrial hygiene and safety practice. Users should

ance Practices: wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove all dirty or contaminated clothing and wash it before reusing, as well as any

other PPE.

**8.2.3 Environmental** Do not apply directly to water, to areas where surface water is present, or to intertidal

**Exposure Controls:** areas below the mean high-water mark. Do not contaminate water when disposing of

equipment wash water.

**Exposure Scenarios:** No data available.

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

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: Light beige opaque liquid.

Odorless to faint, rotten egg smell.

pH: 5.3 - 7.3

Freezing Point: NA

Boiling Point: NA

Flash Pt: N.E.

Evaporation Rate: No data.

Saturated Vapor N.E.

Concentration:

Flammability (solid, gas): No data available.

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

Vapor Pressure (vs. Air or

mm Hg):

Not available

No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): 1.33 - 1.37

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**Density:** 1.3506 G/ML (11.27 - LB/GA)

Solubility in Water: No data.

Octanol/Water Partition N.E.

Coefficient:

Autoignition Pt: N.E.

Decomposition NA

Temperature:

Viscosity: N.E.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

Information with regard to primary physical hazard:

9.2.2 Other safety characteristics

# Section 10. Stability and Reactivity

10.1 Reactivity: N.A.

**10.2 Stability:** Unstable [ ] Stable [ X ]

10.3 Conditions To Avoid - Keep away from heat sources, sparks, and open flames.

**Hazardous Reactions:** 

Possibility of Will occur [ ] Will not occur [ X ]

**Hazardous Reactions:** 

10.4 Conditions To Avoid - Stable under normal conditions.

Instability:

**10.5** Incompatibility - Keep away from flammable materials, sources of heat, flame, sparks, chlorates, nitrates,

**Materials To Avoid:** and other strong oxidizing agents.

**10.6 Hazardous** Oxides of sulfur gases produced by burning sulfur.

**Decomposition or** 

**Byproducts:** 

# Section 11. Toxicological Information

**11.1 Information on** Mutagenicity: This product has not been investigated for mutagenic effects.

**Toxicological Effects:** Embryotoxicity: This product has not been investigated for embryotoxic effects.

Teratogenicity: This product has not been investigated for teratogenic effects.

Reproductive Toxicity: This product has not been investigated for toxic reproductive

effects.

CAS# 7704-34-9: Acute toxicity, LD50, Oral, Rat, > 3000. MG/KG. Result: Behavioral:

Changes in psychophysiological tests.

Acute toxicity, LD50, Dermal, Rabbit, < 2000. MG/KG. Result: Severe exposure can cause permanent skin and eye burns and liver damage, even death. Blood:Changes in serum composition (e.g. Biochemical:Enzyme inhibition, induction, or change in blood or

tissue levels: Phosphatases.

Acute toxicity, LC50, Inhalation, Rat, 9.230 MG/L. Result: Brain and Coverings: Other degenerative changes. Blood:Changes in serum composition (e.g. Biochemical:Enzyme

inhibition, induction, or change in blood or tissue levels: True cholinesterase.

Acute toxicity, LC50, Not reported., Bird, > 5620. PPM. Result: Behavioral: Convulsions

or effect on seizure threshold. Cardiac:Other changes. Lungs, Thorax, or

Respiration:Other changes.

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Acute toxicity, LD50, Oral, Rat, > 3000. MG/KG. Result: Gastrointestinal:Nausea or

vomiting.

Irritation or Corrosion: No data available.

Nose or throat irritation, coughing, chest discomfort, asthma, difficulty breathing, skin **Symptoms** 

related to Toxicologicalirritation, nausea, vomiting, stinging eye irritation, and hives.

**Characteristics:** 

The sensitizing properties of this product have not been thoroughly investigated. Sensitization:

Chronic Toxicological The toxicological properties of this material have not been fully investigated.

Effects:

Carcinogenicity/Other The carcinogenic properties of this product have not been thoroughly investigated.

Information:

Carcinogenicity: NTP? Unknown IARC Monographs? Unknown OSHA Regulated? Unknown

## **Section 12. Ecological Information**

No environmental impact studies have been performed with this product. The available 12.1 Toxicity:

> data on the ingredients of this plant nutrient product does not indicate any undue hazard to the environment under anticipated use and storage. Any waste due to spillage or leakage should be contained and disposed of as a Fertilizer (see Section 6 "Accidental Release Measures). Due to its nutrient value, may contribute to eutrophication in bodies

of water.

CAS# 7704-34-9: No data available. , 0.000 . Result: Behavioral Effects. LC50, Bluegill (Lepomis macrochirus), > 180.0 PPM. Result: Behavioral Effects.

LC50, Rainbow Trout (Oncorhynchus mykiss), > 180.0 PPM. Result: Behavioral Effects.

LC50, Daphnid Family (Daphniidae), > 5000. PPM. Result: Behavioral Effects. LC50, Shrimp (Acetes sp.), 646.0 - 839.0 PPM. Result: Behavioral Effects.

12.2 Persistence and

Degradability:

No data available.

12.3 Bioaccumulative

Potential:

No data available.

12.4 Mobility in Soil:

No data available.

12.5 Results of PBT and

vPvB assessment:

No data available.

12.6 Other adverse effects: No data available.

# **Section 13. Disposal Considerations**

13.1 Waste Disposal Method:

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. Avoid contaminating water by disposal of equipment wash waters or other product wastes.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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## **Section 14. Transport Information**

#### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Trade Name: THAT FLOWABLE SULFUR

DOT Hazard Class: UN/NA Number:

#### 14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Trade Name: THAT FLOWABLE SULFUR

UN Number: Hazard Class:

#### 14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Trade Name: THAT FLOWABLE SULFUR

UN Number: Packing Group:

**Hazard Class:** 

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Trade Name: THAT FLOWABLE SULFUR
UN Number: Packing Group:

**Hazard Class:** 

Additional Transport Emergency Response Guide Number: N.A.

Information:

## **Section 15. Regulatory Information**

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

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

**Regulatory Information:** TSCA Inventory: In compliance with inventory requirements for commercial purposes.

### **Section 16. Other Information**

**Revision Date:** 05/15/2023

Hazard Rating System:

Flammability Instability
Health

NFPA: Special Hazard

Additional Information About No data available.

This Product:

**Company Policy or** 

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