



# The Basics of Safely Handling Sulfur Fertilizer Products

## Commitment to Safety

Tiger-Sul is committed to Safety.

Our Commitment begins with the production of the highest quality products in the market place today. We extend that commitment to help ensure our customers have the knowledge to safely handle our products

Keys to the successful and safe handling of sulfur fertilizer products include:

- Using the Correct Equipment
- Maintenance of equipment and work area
- Correct safety techniques

## Equipment

Using the correct equipment is key to safely handling sulfur fertilizer products.

- **Belt Conveyers** are the best means of transfer.

Conveyors should be grounded and belt speed limited to 220 ft./min.

- **Elevators** can be used to transfer product.

Elevators should be grounded and explosion venting is recommended.

- **Bobcats** are also acceptable.

Caution should be used to prevent unnecessary friction that could cause sparks

- **Augers and Drag Chain Conveyors** are not recommended

Screw Augers and Drag Chain Conveyors cause greater breakdown of the product. If screw augers and drag chain conveyors must be used, they should be operated at the slowest speed possible.

## Maintenance & Housekeeping

One of the easiest ways to prevent incidents is correct equipment maintenance and general housekeeping

- Correct maintenance of equipment is important.

A preventative maintenance schedule should be implemented to ensure equipment stays in good working order.

- A strong housekeeping programs reduces risk related to dust accumulations.

## Ignition Protection

Precautions can be taken that reduce the risk of dust ignition.

- Venting in storage bins reduces suspended dust build up.
- Explosion relief ports to limit damage to elevators.
- Correct grounding of equipment helps to protect against static electricity ignition.

## Understanding Risks

Formed/Prilled Sulphur is not considered flammable under the Transportation of Dangerous Goods (TDG). The primary risk exposure for TIGER Sulphur includes:

- Use of improper equipment
- Improperly maintained equipment.
- Dust accumulation
- Dust in confined spaces

## Fire Information

While formed Sulphur is considered nonflammable, it will burn at a slow rate. Sulphur fires are slow to spread and are easily detectable.

- Sulphur fires emit Sulphur Dioxide. This is a strong odor and usually serves as the first sign of a fire.
- Sulphur fires produce a blue/grey smoke.

Sulphur fires are easily contained and can be extinguished quickly. A breathing apparatus should be used if dealing with a large fire.

- A fine water spray or fog extinguisher can be used. High pressure hoses should not be used.
- CO<sub>2</sub> or dry chemical extinguishers are also effective.
- Small fires can be extinguished with sand or additional solid Sulphur.

## Personal Hazards

Formed Sulphur is virtually non toxic. However it can be an irritant to eyes, skin, and respiratory passages.

Personal Protective equipment should be used to avoid irritation.

- **Respiratory Protections:** Dust respirators should be used in dusty environments.
- **Eye Protection:** Safety glasses which are dust might are recommended.
- **Hands, Arms, & Body:** Workers with sensitive skin should wear gloves and shirts with long sleeves and buttoned collars.

The following first aid precautions can be taken:

- **Eye Contact:** Irrigate thoroughly with copious amounts of water.
- **Skin Contact:** Wash with mild soap and water.
- **Ingestion:** If swallowed, induce vomiting if victim is conscious.

California Proposition 65: ⚠ WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer when inhaled. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Safety Program

The development and implementation of an effective safety program is imperative. An effective safety program will reduce workplace accidents and injuries. An added benefit of workplace safety is that product quality and overall productivity also increases.

**TIGER-SUL recommends that you consult with industry safety professional for further safety information such as the following:**

**NFPA Bulletin 655:**

**“Standards for Prevention of Sulphur Fires and Explosions”**

**Additional safety information can be found on the SDS.**

**The SDS for TIGER products area available on our website at:**

**[www.tigersul.com](http://www.tigersul.com)**

## TIGER<sup>®</sup> Sulphur

TIGER<sup>®</sup> Sulphur is produced through a drop forming process.

- This produces low friability due to shape and consistency of product.
- A proprietary dust suppressant used to further improve handling characteristics.
- Formed sulfur **is not** considered flammable.

It is exempted from flammable class under the Transportation of Dangerous Goods (TDG)



## TIGER-SUL Safety Training Course



Visit our website and take advantage of our free TIGER-SUL Safety Training. Watch the webinar: The Basics of Safety Handling Sulphur Fertilizer Products

Afterwards, you can view the training course presentation and test your knowledge with the Sulphur Safety quiz. Upon successful completion of the quiz you will receive a TIGER-SUL Safety Certificate.

Just visit: [www.tigersul.com](http://www.tigersul.com).

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