



Sulphur mills limited



604/605, 349 - Business Point, Western Express Highway, Andheri (East), Mumbai - 400 069. INDIA
Tel.: +91-22-66910011 • Fax : +91-22-66910308 / 26823716 • E-mail : sml@sulphurmills.com • Website : www.sulphurmills.com

MATERIAL SAFETY DATA SHEET

Product Name: Sulphur 725 g/l SC

Date : 16.12.2015

1 Identification of the substance/mixture and of the company/undertaking

· **Product details**

· Trade Name: COSAN ACTIVE FLOW

· Product name: Sulphur 725 g/l (51.8%) SC

· Application of the substance / the preparation

- Plant protection - agricultural pesticide used as fungicide

· **Manufacturer/Supplier:**

Sulphur Mills Limited

604/605, 6th Floor,

349-Business Point

Western Express Highway,

Andheri (East),

Mumbai - 400 069,

India.

· **Further information obtainable from:**

Tel.: + 91 22 - 4345 2222

Fax : +91 22 4345/2245

Email : sml@sulphurmills.com

2. Hazards identification

· Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Classification:

Hazard class(es), categories:	Specific Target Organ toxicity - single exposure Category 3
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· Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



GHS07

Signal word: Warning

· **Hazard statements**

H335 - May cause respiratory irritation.

· **Precautionary statements**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P262 - Do not get in eyes, on skin, or on clothing

P270 - Do not eat, drink or smoke when using this product



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P271- Use only outdoors or in a well-ventilated area

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

P361-Remove/Take off immediately all contaminated clothing.

P370- In case of fire and/or explosion do not breathe fumes.

P303+P361+P353-IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

P304+P340+P312-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340+P312-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell

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

P501- Dispose of contents/container in safe way.

3 Composition/information on ingredients

· Chemical characterization

Chemical Name	CAS No. & EINECS No	Registration No. according to REACH	Classification according to (EC)1272/2008 (CLP)	Concentration (g/l)
sulphur	CAS: 7704-34-9 EINECS: 231-722-6	----	Organ toxi Category3; H335	725.00

4 First aid measures

General information: Take off immediately contaminated clothing. If symptoms occur and persist, seek medical attention.

· **After inhalation:** Remove victim to fresh air . If symptoms occur and persist, seek medical attention.

· **After skin contact:** Take off contaminated clothing. Rinse contact areas with soap and water for 10 minutes. If symptoms occur, seek medical attention.

· **After eye contact:** Wash hands. Pull the eyelids apart with clean fingers, remove contact lenses and rinse each eye alternately with water for about 15 minutes. If symptoms occur and persist, seek medical attention from an ophthalmologist.

· **After ingestion:** Never induce vomiting. If the injured person is conscious, rinse mouth with water and let the exposed person take a few sips (up to 2,5 dl) of water. If symptoms occur and persist, seek medical attention.

· **Information for doctor:** Treat symptomatically and supportively.

· **The following symptoms may occur:**

Inhaling aerosols during use may cause burning sensation in nose and throat, coughing and sneezing. If Prolonged or repeated exposure with skin may cause redness. If contact with eyes , May cause tearing and redness in sensitive persons. after ingestion, May cause nausea, bloating or diarrhoea.

Antidotes: No antidotes, Treat symptomatically.



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5 Firefighting measures

Suitable extinguishing agents:

The product is a suspension in water. It does not burn or support burning, however, exposure to fire may cause water to evaporate and the remaining part may be ignited. Appropriate extinguishing media are water spray, foam, CO₂ and powder.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Produces toxic sulfur dioxide gas.

• **Protective equipment:**

Wear suitable protective clothing to avoid contact with skin.
Wear self-contained respiratory protective device.

- **Additional information** Burns with a pale blue flame that may be difficult to see in daylight.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

• **Handling:**

• **Information for safe handling:** Prevent formation of aerosols.

• **Information about fire - and explosion protection:**

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

• **Storage:**

• **Requirements to be met by storerooms and receptacles:**

Store away from oxidizing materials like chlorates, nitrates.

Preparations containing sulfur may react with metals including silver and copper, resulting in discoloration of the metal.

• **Information about storage in one common storage facility:**

Do not store together with incompatible materials and foodstuffs.

• **Further information about storage conditions:** Store in cool, dry, well ventilated location.

• **Specific applications** Used as fungicides.

8 Exposure controls/personal protections

• **Additional information about design of technical facilities:** No further data; see item 7.

• **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.



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- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:** Protective gloves
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information	
· Appearance:	
Form:	Liquid
Colour:	Yellow Viscous Liquid
· Odour:	Characteristics
· Change in condition	
Melting point/Melting range: not determined	
Boiling point/Boiling range: -	
· Flash point:	>100°C
Ignition temperature	Not below 400 °C
Self-ignition	product not selfigniting
· Danger of explosion:	product does not present an explosion hazard
· Density/Sp. Gravity	1.4288
· Solubility in / Miscibility with water:	suspension
Solvent content: organic: 0.00%, VOC(EC) 0.00 %	
Solid content : 0.00%	
Additional Information: Oxidizing Properties - none., Explosive properties: no evidence Do not mix with products containing oils.	

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
Keep away from heat, air and moisture.
Keep away from excess heat



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- **Materials to be avoided:** Chlorates, nitrates, perchlorates, permanganates, strong oxidizing agents, mineral oils.
- **Dangerous reactions** Reacts violently with strong oxidants.
- **Dangerous decomposition products:**
The product does not decompose if used and stored properly. Hazardous decomposition products formed under fire conditions: SO₂.

11 Toxicological information

- **Acute toxicity:**

LD/LC50 values relevant for classification:		
7704-34-9 sulphur, precipitated, sublimed or colloidal		
Oral	LD 50	> 2000 mg/kg (rat)
Dermal	LD 50	>2000 mg/kg (rat)
Inhalative	LC 50 (4 hr)	>1.706 mg/L (rat)

- **Primary irritant effect:**
- **on the skin:** Not irritating to skin.
- **on the eye:** non irritating to eye
- **Sensitization:** No sensitizing effects known.
- **Repeated dose toxicity**
Species: Rat
Exposure period: 100 days
NOAEL: 56 mg/kg b.w
Result: No systemic effects were found.
- **CMR effects (carcinogenetic, Mutagenicity and toxicity for reproduction)**
Mutagenicity: The substance was found to be non-mutagenic as per Ames test.

12 Ecological information

Practically non toxic to Human and animal

- **Ecotoxic effects:**

7704-34-9 sulphur,	
LD50	>2000 a.s/ kg bw(Japanese quail) (sulphur Dust)
LC50(96hrs)	> 100 mg/L (nominal) (D. rerio) (Sulphur 800 SC)
EC ₅₀ (48h)	> 100 mg/L (nominal) (daphnia) (Sulphur 800 SC)
EC ₅₀ (72h)	> 100 mg /L (nominal) (Green algae) (Sulphur 800 SC)
Oral & contact LD ₅₀ (48h)	> 100 µg formulation/bee (Sulphur Dust)



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- **Results of PBT and vPvB assessment :** -
The mixture does not contain substances that are deemed PBT or vPvB

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue 20 01 19* pesticides**
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

14 Transport information

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S.
UN number : 3082
IMCO class : 9
Packaging Group : III

15 Regulatory information

- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms** Please refer section 2
- **Signal word** : Warning
- **Hazard statements** Please refer section 2
- **Precautionary statements** Please refer section 2

16. Other informatiuon

DISCLAIMER

Information contained in this material safety data sheet is believed to be reliable but no representation; guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the User/Distributor to ensure that the information contained in the material safety data sheet is relevant to the product manufactured/handled or sold by him as the case may be, Sulphur Mills Ltd. makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose.