



Sulphur mills limited

Technology leaders in advanced formulations



FLOSUL (Sulphur 800g/l SC)

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) amended by Regulation (EU) 2020/878 & GHS ninth revised edition, 2021

Version : 4.0
Revision date : 28.03.2023
Supersedes : All previous version

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product Identifier	
	Substance name:	Mixture
	CAS number:	Not applicable
	EC number:	Not applicable
	Index number:	Not applicable
	Registration Number:	6300 13225-2/2019 NEBIH (HUNGARY)
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Relevant identified Uses of the substance	Fungicide
	Uses advised against (where applicable)	No additional information available
1.3	Details of the supplier of the safety datasheet	
	Manufacturer/ Supplier:	SML Limited (Formally known as Sulphur Mills Limited) 604/605, 349-Business Point, Western Express Highway, Andheri (East) Mumbai - 400 069, India Tel.: + 91 22 – 4345 2222 Fax: +91 22 4345/2245 Email: sml@sulphurmills.com
1.4	Emergency telephone number:	
	SML	91-22-43452222 (India)

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or Mixture			
	Classification according to Regulation (EC).No.1272/2008 [CLP] The Mixture has no hazards classification			
2.2	Label elements			
	Labelling according to regulation (EC) No.1272/2008 [CLP]			
	Hazard pictograms	Not applicable		
	Signal word	Not applicable		
	Hazard statements	Not applicable		
	Precautionary statements	P102	:	Keep out of reach of children
		P264	:	Wash hands [and...]thoroughly after handling
		P270	:	Do not eat, drink or smoke when using this product
		P280	:	Wear protective gloves/protective clothing/eye protection/face protection/hear protection/..
		P391	:	Collect spillage
Other hazards information :	P501	:	Dispose of contents/container to...	
	EUH 208	:	Contains 2,2', 2''-(1,3,5-triazinan-2,4,6-triyl) - triethanol . May produce an allergic reaction.	
	EUH 401	:	To avoid risks to human health and the environment, follow the instructions for use.	
2.3	PBT:	The substance does not meet the PBT / vPvB classification criteria according to Annex XIII of Regulation (EC) 1907/2006.		
	vPvB:			
	SVHC	The substance is not listed as a SVHC		

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substance	Not applicable
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3.2	Mixtures	Product identifier			Name	% (w/v)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	SCL/ M-factor/ATE
	Cas No.	EC No.	Index No.					
	7704-34-9	231-722-6	Not available	Sulfur	80.00	Skin irritation. 2 H315	Not available	
	4719-04-4	225-208-0	Not available	2,2',2''-(1,3,5-triazinane-2,4,6-triyl)triethanol	00.10	Acute Tox. 4 H302 Skin Sens. 1 H317	Not available	
	Its proprietary	Its proprietary	Its proprietary	Other inert ingredients	19.09	Not classified as hazards	Not applicable	

SECTION 4: FIRST AID MEASURES

4.1	Description of first aid measures	
	General information:	Immediately remove any clothing soiled by the product. Consult a physician.
	After inhalation:	If chemical is inhaled, move person into fresh air. Keep at rest. In the event of coughing and slight breathlessness give artificial respiration or Call a doctor.
	After skin contact:	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before reuse.
	After eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Consult an ophthalmologist.
	After swallowing:	Rinse mouth with water immediately (only if the person is conscious). Seek medical advice. Do not induce vomiting.
	Self-protection of the first aider	NOT enter the hazardous area or attempt rescue without putting on appropriate personal protective equipment.
4.2	Most important symptoms and effects, both acute and delayed	
	Inhalation	Irritation of respiratory passages, Sneezing, coughing.
	Ingestion	Metabolic acidosis
	Skin contact	Irritation of the eye and skin, Repeated contact may induce allergic response.
	Eye contact	Mechanical irritation on inner surface of eyelid, watering of the affected eye.
Information for doctor	Treat symptomatically and supportively.	
4.3	Indication of any immediate medical attention and special treatment needed	
	Treat symptomatically and supportively in response to reactions of patient.	
	Follow instructions given in section 4.1 in case of skin and eye contact.	

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media	
	Suitable extinguishing media:	Use fire extinguishing methods suitable to surrounding conditions. Water spray, alcohol resistant foam, Dry powder ,Carbon dioxide (CO ₂)
	Unsuitable extinguishing media:	high pressure water jets
5.2	Special hazards arising from the substance	
	Hazardous combustion products	produces toxic gases of sulfur dioxide.
5.3	Advice for firefighters	
	Firefighting instructions	Isolate fire area. Evacuate downwind Do not breathe fumes Contain the extinguishing fluids by bunding Do not allow run-off from fire-fighting to enter drains or water courses



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	Protective equipment:	Wear proper protective equipment & clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.
	Additional information	Burns with a pale blue flame that can be difficult to see in the light of day
SECTION 6: ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions, protective equipment and emergency procedures	For non-emergency personnel: Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Keep unprotected persons away. For emergency responders: Use personal protective equipment. Evacuate personnel to safe areas.
6.2	Environmental precautions:	Do not allow product to reach sewage system, drains or any water course. Do not allow to penetrate the ground/soil.
6.3	Methods and material for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Keep in suitable and closed containers for disposal in accordance with applicable laws and regulations.
6.4	Reference to other sections	See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
SECTION 7: HANDLING AND STORAGE		
7.1	Precautions for safe handling	Ensure good ventilation/exhaust at the workplace. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Handle in accordance with good industrial hygiene and safety practice. Do not leave container open. Ventilate empty vats and tanks well before entering.
	Information about fire- and explosion material protection:	Keep ignition sources away. Do not smoke. Keep away from combustible material. Protect against electrostatic charges.
7.2	Conditions for safe storage, including any incompatibilities	Storage:
	Requirements to be met by store rooms or receptacles	Store product in its original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
	Information about storage in one common agent store facility	Store away from incompatible materials such as strong alkali or oxidizing agents such as chlorates, nitrates. Mixtures containing sulfur can react with metals such as silver and copper, resulting in discoloration of the metal.
	Further information for storage in sunlight conditions	Store in cool, dry conditions in tightly-sealed receptacles; away from direct sunlight.
7.3	Specific end use(s) Used as a fungicide	
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION		
	Additional information about design of technical facilities:	Provide exhaust ventilation or other engineering controls at machinery to keep the airborne concentrations of vapor below their respective Threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.
8.1	Control parameters Ingredients with limit values that require monitoring at the workplace:	The product does not contain relevant quantities of substances whose limit values must be monitored in the workplace.
8.2	Exposure controls	



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	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. The glove material has to be impermeable and resistant to the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	Material of gloves	Nitrile gloves are preferred over latex because of their chemical resistance, their tendency to visibly rip when punctured, and to prevent possible latex allergies
	Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
	Eye protection:	Safety goggles.
	Body protection:	Impervious clothing, Apron ,Boots
SECTION 9:	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
	Form:	Liquid (water suspension)
	Colour:	Yellow
	Odour:	Characteristic
	Melting point/freezing point: (Applies for liquid &Solid)	Not determined
	Initial boiling point and boiling range:	Not determined
	Flammability: (Applies to gases, liquids and solids)	Test not required for water formulations based.
	Explosion limits: Lower explosion limit: Upper explosion limit: (Do not apply to solids)	Not determined
	Flashpoint: (Does not apply to gases, aerosols and solids)	>100
	Auto ignition: Temperature (Only applies to gases and liquids)	No auto-ignition temperature was observed below 400 °C
	Decomposition temperature:	Not determined
	pH: (Does not apply to gases.)	Not determined
	Kinematic viscosity: (Only applies to liquids)	Not determined
	Solubility in/Miscibility with Water at 20 °C:	Form suspension in water
	Partition coefficient (n-octanol/water) at 20 °C: (Does not apply to inorganic and ionic liquids and does not generally apply to mixtures)	Not applicable
	Vapour pressure:	Not determined
	Density and or/relative density at 20 °C: (Only apply to liquids and solids)	1.4288 g/ml
	Relative vapour density: (Only applies to gases and liquids)	Not determined



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	Particle characteristics: (Only apply to solids)	Not applicable						
9.2	Other information							
	Danger of explosion:	Non explosive						
	Oxidizing properties	Non oxidising						
SECTION 10: STABILITY AND REACTIVITY								
10.1	Reactivity	The usual precautions in the use of chemicals should be observed.						
10.2	Chemical stability – Thermal decomposition/conditions to be avoided:	Stable under normal conditions of use and recommended storage conditions. Avoid moist and warm conditions						
10.3	Possibility of hazardous reactions	Product does not exhibit any dangerous reactions under normal conditions. Reacts violently in the presence of strong oxidants.						
10.4	Conditions to avoid	Avoid moist and warm conditions						
10.5	Incompatible materials:	Strong oxidizing agents						
10.6	Hazardous decomposition products:	Thermal decomposition giving toxic products : sulfur oxides, including sulfur dioxide						
SECTION 11: TOXICOLOGICAL INFORMATION								
11.1	Information on toxicological effects							
	Acute toxicity	Method	Species	Route of exposure	Effective Dose	Exposure time	Results	
	Acute oral toxicity	OECD 423	Female rat	Oral	LD50 >2000 mg/kg bw	14 days	Unclassified	
	Acute dermal toxicity	OECD 402	Wister rats either sex	Dermal	LD50 > 2000 mg/kg bw	14 days	Unclassified	
	Acute Inhalation	OECD 403	Wister rats either sex	Inhalation	LC50 >1,706 mg/L air (Maximum attainable concentration)	4 hours	Unclassified	
	skin corrosion/irritation;			Non Irritant to rabbit skin				
	serious eye damage/irritation;			Non Irritant to rabbit eyes				
	respiratory or skin sensitisation;			Non sensitizer to Guinea pigs				
	germ cell mutagenicity;			The substance was found to be non-mutagenic as per Ames test				
	carcinogenicity;			No carcinogenic effects				
	reproductive toxicity;			No reproductive effects				
	STOT-single exposure;			Data not available				
	STOT-repeated exposure;			Data not available				
	aspiration hazard			Data not available				
11.2	Information on other hazards			Data not available				
11.2.1	Endocrine disrupting properties			Data not available				
11.2.2	Other information			Data not available				
	Practical experience/human evidence			Data not available				
	Experimental data			Data not available				
	Assessment /Classification			Data not available				
SECTION 12: ECOLOGICAL INFORMATION								
	Aquatic toxicity:	Method	Species	Exposure time	Effect dose	Evaluation	Remark	
	Fish	OECD 203	<i>D. rerio</i>	96 hours	LC50 : >100 mg mga.i/L	>100 mg a.i/L	Unclassified	
	Daphnia	OECD 202	<i>Daphnia magna</i>	48 hours	EC50 : >100 mg mga.i/L	48 hr EC50 (for crustacea) >100 mg mga.i/L	Unclassified	



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	Algae	OECD 201	<i>Pseudokirchneriella subcapitata</i>	72 hours	ErC50: >100 mg/L	72 or 96hr ErC50 >100 mg mga.i/L	Unclassified
12.2	Persistence and degradability						
	Abiotic Degradation:			Not applicable as substance is inorganic.			
	Physical- and photo-chemical elimination:						
12.3	Biodegradation:			Not applicable as substance is inorganic.			
	Bioaccumulative potential						
	Partition coefficient n-octanol /water (log Kow):			Not applicable as substance is inorganic.			
12.4	Bioconcentration factor (BCF):						
	Mobility in soil						
	Known or predicted distribution to environmental compartments			Sulfur exhibits low mobility in soil			
	Surface tension:						
12.5	Adsorption/Desorption:			Not available			
12.5	Results of PBT and vPvB assessment : Not applicable						
12.6	Endocrine disrupting properties : Data not available						
12.7	Other adverse effects : Data not available						
12.8	Additional information : Data not available						
SECTION 13: DISPOSAL CONSIDERATIONS							
13.1	Waste treatment methods						
13.1.1	Product / Packaging disposal:		Empty containers must be decontaminated before returning for recycling				
	Waste codes / waste designations according to LoW:		20 01 19* pesticides				
13.1.2	Waste treatment-relevant information:		Disposal must be made according to local and national regulations.				
13.1.3	Sewage disposal-relevant information:		Do not allow product to reach sewage system. Destroy the product by incineration (in accordance with local and national regulations).				
13.1.4	Other disposal recommendations:		Do not release into the environment. Destroy packaging by incineration at an approved waste disposal site in accordance with local and national regulations.				
SECTION 14: Transport information							
14.1	UN-Number : ADR,IMDG,IATA			Not regulated for transport			
14.2	UN proper shipping name: ADR, IMDG,IATA			Not applicable			
14.3	Transport hazard class(es)ADR, IMDG, IATA			Not applicable			
14.4	Packing group: ADR,IMDG,IATA			Not applicable			
14.5	Environmental hazards:			Marine pollutant : No			
14.6	Special precautions for user Not applicable.			Not applicable			
14.7	Maritime transport in bulk according to IMO instruments			Not applicable			
	Transport in bulk according to Annex II of MARPOL73 /78 and the IBC Code						
	UN "Model Regulation"			Not applicable			
SECTION 15: REGULATORY INFORMATION							
15.1	Safety, health and environmental regulations/ legislation specific for the substance or mixture						
	National regulations:						
	International Inventories			Labelling according to Regulation (EC) No 1272/2008 The The Mixture has no hazards classification Hazard pictograms : Not applicable Signal word : Not applicable Precautionary statements			



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		<table border="1"> <tr> <td>P102</td> <td>:</td> <td>Keep out of reach of children</td> </tr> <tr> <td>P264</td> <td>:</td> <td>Wash hands [and...]thoroughly after handling</td> </tr> <tr> <td>P270</td> <td>:</td> <td>Do not eat, drink or smoke when using this product</td> </tr> <tr> <td>P280</td> <td>:</td> <td>Wear protective gloves/protective clothing/eye protection/face protection/hear protection/..</td> </tr> <tr> <td>P391</td> <td>:</td> <td>Collect spillage</td> </tr> <tr> <td>P501</td> <td>:</td> <td>Dispose of contents/container to...</td> </tr> <tr> <td>EUH 208</td> <td>:</td> <td>Contains 2,2', 2''-(1,3,5-triazinan-2,4,6-triyl) - triethanol . May produce an allergic reaction.</td> </tr> <tr> <td>EUH 401</td> <td>:</td> <td>To avoid risks to human health and the environment, follow the instructions for use.</td> </tr> </table>	P102	:	Keep out of reach of children	P264	:	Wash hands [and...]thoroughly after handling	P270	:	Do not eat, drink or smoke when using this product	P280	:	Wear protective gloves/protective clothing/eye protection/face protection/hear protection/..	P391	:	Collect spillage	P501	:	Dispose of contents/container to...	EUH 208	:	Contains 2,2', 2''-(1,3,5-triazinan-2,4,6-triyl) - triethanol . May produce an allergic reaction.	EUH 401	:	To avoid risks to human health and the environment, follow the instructions for use.
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	Substances of very high concern (SVHC) according to REACH, Article57	The substance is not listed as SVHC.																								
15.2	Chemical safety assessment:	A chemical safety assessment has not been carried out.																								
SECTION 16: OTHER INFORMATION																										
	Department issuing SDS	Product safety department.																								
	Contact	Name of person : Jaya Sharma Email id :j.sharma@sulphurmills.com Tel.: + 91 22 – 4345 222 Fax: +91 224345/2245																								
16 (a).	Indication of changes then previous version altered.	<p>Mention the section details which have been altered.</p> <p>Section 1: Identification of the substance/mixture and of the company/undertaking Section 3: Composition/information on ingredients Section 4: First-aid measures. Section 5: Fire-fighting measures Section 6: Accidental Release measures Section 7: Handling and storage. Section 8: Exposure Controls/Personal protection. Section 9: Physical and Chemical properties. Section 10: Stability and Reactivity Section 11: Toxicological Information. Section 12: Ecological Information. Section 13: Disposal consideration Section 16: Other information</p>																								
16 (b).	Abbreviations and acronyms:	<p>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent</p>																								



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		PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
16 (c).	Key literature references and sources for data	Source of data used in SDS : Section 2 : GHS , Ninth revised edition 2021 Section 2.3: https://echa.europa.eu/candidate-list-table Section 9 : On basis of test data Section 11 : On basis of test data Section 12 : On basis of test data And EFSA Scientific Report (2008) 221, 1-70 Section 13.1.1 : https://ec.europa.eu/environment/topics/waste-and-recycling/implementation-waste-framework-directive_en Section 14 : GHS , Ninth revised edition 2021
16 (d).	Disclaimer	This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.