

Preparation Date 04-Oct-2016

Revision Date 04-Oct-2016

Revision Number: 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product Identifier****Product Description** Sulphur 80% WDG**Other means of Identification****UN-No** Not Regulated**Recommended use of the chemical and restriction on use****Recommended use** Fungicide
Uses advised against Activities contrary to label activities**Details of the Supplier of the Safety Data Sheet****Supplier Address****UPL Limited**
Uniphos House, Madhu Park,
Khar (W), Mumbai, India
Tel: +91-(022)- 2646-8000**E-mail address** info.in@uniphos.com**Emergency Telephone Number****Company Phone Number** +91-(022)- 2646-8000
Emergency telephone number +91-(022)-2646-8000 (Office Hours 9:00 A.M. - 5:00 P.M.)**2. Hazard Identification****Classification**Acute toxicity - Oral Category 5 - (H303)
Acute toxicity - Dermal Category 5 - (H313)
Acute toxicity - Inhalation Category 5 - (H333)**Label elements****Symbol** None**Signal word** Danger**Hazard Statements**H303 - May be harmful if swallowed
H313 - May be harmful in contact with skin
H333 - May be harmful in inhaled**Precautionary Statements****Prevention**P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.

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Response

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician
P312 Call a POISON CENTER or doctor/physician

Storage

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

Prevention

P501 Dispose of contents/container to an approved waste disposal plant

Other Information

May form combustible dust concentrations in air.

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Sulphur	7704-34-9	80	-

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

First-aid measures**Eye contact**

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Immediately call a poison control center or doctor for treatment advice.

Skin contact

Remove contaminated clothing and shoes immediately, then wash with plenty of water. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned. If skin irritation or rash develops, get medical attention.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting unless told by physician. If vomiting occurs ensure patient can breathe. Get medical attention.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects The most important known symptoms and effects are described in labeling see section (2) and/or in section 11

Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically and supportively

5. Fire-fighting measures

Extinguishing media**Suitable extinguishing media**

CO₂ Dry chemical. Water spray or fog.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire



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Special hazards arising from the substance or mixture

Special Hazard may form combustible dust concentrations in air

Hazardous combustion products Oxides of sulphur

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Use standard firefighting procedures and consider the hazards of involved material.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid dust formation. Avoid breathing dust or mist. Avoid contact with skin, eyes. Remove all sources of ignition. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment.

Environmental precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods and material for containment and cleaning up

Methods for Clean-Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Remove all sources of ignition.

Reference to other sections Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

7. Handling and Storage

Precautions for safe handling

Handling Avoid dust formation. Avoid breathing dust/mist. Keep out of reach of children. Do not eat, drink or smoke when using this product. Remove all sources of ignition. Provide appropriate exhaust ventilation at places where dust is formed. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep out of reach of children.

incompatible materials strong oxidizers, metals, strong acids

8. Exposure Controls/Personal Protection

Exposure Guideline Apply technical measures to comply with the occupational exposure limit.

Engineering controls Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye/Face Protection Avoid contact with eyes. Where there is potential for eye contact have eye flushing equipment available. Tightly fitting safety goggles. Face-shield.

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Skin/Hand protection	Wear protective gloves/clothing. Long-sleeved clothing
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Environmental exposure controls	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Local authorities should be advised if significant spillage cannot be contained.

General hygiene considerations

Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

appearance	Free flowing granular solid
Physical state	Solid
Odor	Earthy/woody, similar to sawdust.
Color	Slightly orangish tan
odor threshold	No information available

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	168°C	
flammability (solid, gas)	No information available	
Upper/lower flammability or explosive limit	No information available	
Relative density	0.87 g/ml	pour/tap density
Bulk density	No information available	
Vapor density	No information available	
Vapor pressure	No information available	
Water solubility	No information available	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	241°C	
decomposition temperature	No information available	
Viscosity, kinematics	No information available	
Dynamic viscosity	No information available	
Oxidizing properties	No information available	
Explosive properties	No information available	

OTHER INFORMATION

Softening point	No information available
VOC Content	No information available
density	No information available
Bulk density	No information available

10. Stability and Reactivity

Reactivity

No information available

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Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reaction

None under normal processing.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials

strong oxidizers, metals, strong acids

Hazardous decomposition products

Oxides of sulphur

11. Toxicological Information

Information on Toxicological Effects

Product information

Acute Oral LD50	>2200 mg/kg
Acute Dermal LD50	>2000 mg/kg
Acute Inhalation LC50	>5.4 mg/l - 4hr

Local effect

Inhalation	May be harmful if inhaled
Eye contact	Not irritating
Skin contact	Not irritating
Ingestion	May be harmful if swallowed

Chronic toxicity

Skin Corrosion/Irritation	Not irritating
Eye damage/irritation sensitization	Not irritating
Mutagenic effects	Based on available data, the classification criteria are not met.
Carcinogenic effects	Based on available data, the classification criteria are not met.
Reproductive effects	Based on available data, the classification criteria are not met.
STOT - Single Exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12. Ecological Information

Ecotoxicity

LC50 Fish (96 hr) = >200 mg/l Common Carp (Rainbow trout)
EC 50 Daphnia (48 hr) = >100 mg/l
EC 50 Algae (72 hr) = >100 mg/l

Persistence and Degradability

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No information available.

Bioaccumulative Potential

No information available.

Other Adverse Effects

No information available.

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method Dispose of in accordance with applicable Federal, State, local laws and regulations.

Contaminated packaging Discharge, treatment, or disposal may be subject to national, state, or local laws.

14. Transport Information

IMDG/IMO Not Regulated

IATA/CAO Not Regulated

15. Regulatory Information

International Inventories

Sulphur : (CAS 7704-34-9)

TSCA	Complies
EINECS	Complies
ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	-
AICS	Complies
KECL	Complies

Legend

x :- Listed

- :- Not Listed, Not determined

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

16. Other Information

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Revision Summary -



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End of Safety Data Sheet