

Preparation Date 29-Mar-2017

Revision Date 29-Mar-2017

**Revision Number 01** 

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OFTHE COMPANY/UNDERTAKING

**Product Identifier** 

Product Description Sodium Sulphate

Other means of Identification

UN-No Not Regulated

Recommended use of the chemical and restriction on use

Recommended use Industrial Chemical, Manufacture of substances

**Details of the Supplier of the Safety Data Sheet** 

**Supplier Address** 

**UPL Limited** 

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District-Bharuch, Gujrat.

Phone number: +91-(02645)226011-15

E-mail address info.in@uniphos.com

**Emergency Telephone Number** 

**Emergency telephone number** +91-(02645)226011-15

### 2. Hazard Identification

# **Classification**

Skin Corrosion/Irritation Category 3 - (H316)
Serious Eye damage/Irritation Category 2B - (H320)
STOT - Single Exposure Category 3 - (H335)

## Label elements



Signal word Warning

**Hazard Statements** 

H316 - May cause mild skin irritation.

H320 - Causes eye irritation.

H335 - May cause respiratory tract irritation.

**Precautionary Statements** 

Prevention



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

P264 Wash thoroughly after handling.

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

#### Response

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P332+P313 IF skin irritation occurs: Get medical advice/attention.

**P305+351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P312 Call a POISON CENTER/Physician if you feel unwell.

#### Storage

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

P405 Store locked up.

#### Prevention

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

#### Other Information

No other hazards known.

# 3. Composition/information on Ingredients

Chemical name	CAS-No	W/W %
Sodium Sulphate	7757-82-6	<=100
(Anhydrous)		

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 eyes open and rinse slowly and gently with water for 15 - 20 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. 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. Seek Immediate 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. Seek 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 the

labelling (See section 2) and/or in section 11.

#### Indication of immediate medical attention and special treatment needed

**Notes to physician** Treat symptomatically and supportively.



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# 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing media Dry chemical, CO<sub>2</sub>, Water spray or regular foam

Unsuitable extinguishing media High pressure water stream may scatter spilled material

Special hazards arising from the substance or mixture

Special Hazard Contact of melted Sodium sulphate (melting point 884°C) with aluminium will cause violent

reactions (formation of Al<sub>2</sub>O<sub>3</sub>, Na<sub>2</sub>O and SO<sub>2</sub>/SO<sub>3</sub>-gas). Danger of explosion!

Hazardous combustion products Oxides of sulphur, sodium oxide

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/mist formation. Do not eat, drink or smoke while using this product. Avoid

contact with skin and eyes. Avoid breathing dust/mist. Keep unnecessary people away.

Isolate area. Keep out of low areas.

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting

requirements, for assistance in waste characterization and/or hazardous waste disposal

and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

**Methods for Clean-Up** Pick and arrange disposal without creating dust. Sweep up and shovel into suitable

container for disposal. Follow all label instructions regarding spill clean-up and residual

disposal methods.

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 contact with skin and eyes. Avoid dust formation. Do not breathe dust/mist. Ensure

adequate ventilation. Wash thoroughly after handling. Avoid release to environment. Empty

containers may contain hazardous residues. Do not reuse empty container.

Conditions for safe storage, including any incompatibilities

Storage Storage Store in accordance with local regulation. Store in original container. Keep containers tightly

closed in a cool, well-ventilated place. Keep away from incompatible material. Do not store

in unlabeled containers. Do not store material near food, feed or drinking water.

**Incompatible materials** Strong oxidizing agents, strong acids, aluminum, magnesium.



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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.

**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 Solid. (Crystalline solid, Crystalline powder, Granular solid, Powdered solid)

Physical state Solid

Odor Characteristic smell
Color White to off-white
Odor threshold No information available

PropertyVALUESRemarks/ MethodpHNo information available(1% aqueous solution)

Melting point/freezing point 884°C
Boiling Point/Range >884°C

Flash Point Not applicable Flammability (solid, gas) Non flammable

Upper/lower flammability or
Explosive limit
Density
Vapor density
No information available
2.7 g/cm³ at 20°C
No information available
No information available
No information available

**Water solubility** 445.5 g/L at 20°C and a pH of 5.23

Partition coefficient: n-octanol/water log Pow = -4.38

Autoignition temperature
Decomposition temperature
Dust Content
Dynamic Viscosity
Oxidizing properties
Explosive properties
Surface Tension

No information available

# 10. Stability and Reactivity

## Reactivity



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Hygroscopic: absorb moisture or water from the air. Reactive with oxidizing agents, metals.

## **Chemical stability**

Stable under normal temperature and conditions.

#### Possibility of hazardous reaction

None under normal processing.

## **Conditions to avoid**

Incompatible materials, dust generation, exposure to moist air of water.

Temperature higher than 1200°C (decomposition and formation of SO2 and Na2O).

Contact of melted Sodium sulphate (melting point 884°C) with aluminium will cause violent reactions (formation of Al2O3, Na20 and SO2/SO3-gas). Danger of explosion!

#### **Incompatible Materials**

Strong oxidizing agents, strong acids, aluminum, magnesium.

#### **Hazardous decomposition products**

Thermal hazardous decomposition products: Oxides of Sulphur, Sodium oxide

# 11. Toxicological Information

#### **Information on Toxicological Effects**

LD50 Oral = >2000 mg/kg

LC50 Inhalation = >2.4 mg/l (Maximum achievable concertation - No mortality)

#### Local effect

**Inhalation** May cause respiratory tract irritation.

**Eye contact Skin contact**Causes eye irritation.
Causes mild skin irritation.

**Ingestion** Based on available information, classification criteria are not met.

# **Chronic toxicity**

Skin corrosion/Irritation Causes mild skin irritation.

Eye damage/Irritation Causes eye irritation.

SensitizationBased on available information, classification criteria are not met.Mutagenic effectsBased on available information, classification criteria are not met.Carcinogenic effectsBased on available information, classification criteria are not met.Reproductive effectsBased on available information, classification criteria are not met.

(NOAEL = 1000 mg/kg/day)

**STOT - Single Exposure** May cause respiratory tract irritation.

STOT - repeated exposure No effects known Aspiration hazard Not applicable

# 12. Ecological Information

# **Ecotoxicity**



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No further relevant information available.

# Persistence and Degradability

No further relevant information available.

# **Bioaccumulative Potential**

No further relevant information available.

## **Other Adverse Effects**

No further relevant 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 Empty container should be taken for local recycling, recovery or waste disposal. Do not

re-use container. Avoid dispersal of spilt material and runoff and contact with soil,

waterways, drains and sewers.

# 14. Transport Information

**DOT** Not Regulated

IMDG/IMO Not Regulated

IATA/ICAO Not Regulated

# 15. Regulatory Information

#### **International Inventories**

**USINV** Complies **TSCA** Complies **EINECS/ELINCS** Complies **DSL/NDSL** Complies **PICCS** Complies **ENCS** Complies China Complies **AICS** Complies Complies **KECL** 

-: Not listed/Determines

#### Legend

USINV - Total TSCA/FIFRA Inventory

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



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AICS - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

### 16. Other Information

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#### Disclaimer

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**End of Safety Data Sheet** 

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