

# SULPHUR POWDER CAS NO 7704-34-9

# MATERIAL SAFETY DATA SHEET SDS/MSDS

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	Sulphur Powder		
	CAS-No.	7704-34-9		
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	Laboratory chemicals, Industrial & for pre-	ofessional use only.	
1.3	Details of the supplier of Company	lier of the safety data sheet : Pioneers for Chemicals (PIOCHEM) Area 269A,1st industrial zone 6thof October city, Giza, Egypt		
	Telephone Email	+20 1023932115 info@piochem.com www.piochem.com		
1.4	Emergency telephone nu			

**1.4 Emergency telephone number** Emergency Phone # : +20 1225728304 (9:00am - 6:00 pm) [Office hours]

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008
Pictogram

Signal word	Warning
Hazard statement(s) H315	Causes skin irritation.
Precautionary statement(s)	none
Supplemental Hazard Statements	none

# 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Synonyms	:	sulfur (Aerosol)
Formula Molecular weight CAS-No. EC-No. Index-No.	:	S 32.06 g/mol 7704-34-9 231-722-6 016-094-00-1

#### Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

Concentration

Sulphur			
CAS-No.	7704-34-9	Skin Irrit. 2; H315	<= 100 %
EC-No.	231-722-6		
Index-No.	016-094-00-1		

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

# If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2** Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Sulphur oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# SECTION 7: Handling and storage

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities
 Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
 Storage class (TRGS 510): Flammable solid hazardous materials

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEK- P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

- a) Appearance Form: powder Colour: light yellow
- b) Odour slight
- c) Odour Threshold No data available
- d) pH No data available

	e)	Melting point/freezing point	Melting point/range: 118 - 120 °C
	f)	Initial boiling point and boiling range	444.7 °C
	g)	Flash point	207 °C - closed cup
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	May form combustible dust concentrations in air.
	j)	Upper/lower flammability or explosive limits	Upper explosion limit: 6.83 %(V) Lower explosion limit: 0.17 %(V)
	k)	Vapour pressure	10 hPa at 246 ℃ 1 hPa at 183.8 ℃
	I)	Vapour density	No data available
	m)	Relative density	2.07 g/mL at 25 °C
	n)	Water solubility	insoluble
	0)	Partition coefficient: n- octanol/water	No data available
	p)	Auto-ignition temperature	240 °C
	q)	Decomposition temperature	No data available
	r)	Viscosity	8 mm2/s at 140 °C -
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
9.2	Other safety information No data available		
SECT	ION	10: Stability and reactivi	ty
10.1	<b>Reactivity</b> No data available		
10.2	<b>Chemical stability</b> Stable under recommended storage conditions.		
10.3	Possibility of hazardous reactions No data available		
10.4	<b>Conditions to avoid</b> Avoid moisture. Heat, flames and sparks.		
10.5	Incompatible materials Strong oxidizing agentsAmines, Bases		

**10.6 Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Sulphur oxides Other decomposition products - No data available In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# Acute toxicity

LDLO Oral - Rabbit - 175 mg/kg(Sulfur) LD50 Oral - Rat - > 2,000 mg/kg(Sulfur) LC50 Inhalation - Rat - 4 h - > 9.23 mg/l(Sulfur) LD50 Dermal - Rabbit - > 2,000 mg/kg(Sulfur)

LDLO Intravenous - Rat - 8 mg/kg(Sulfur) LDLO Intravenous - Rabbit - 5 mg/kg(Sulfur) LDLO Intraperitoneal - Guinea pig - 55 mg/kg(Sulfur) LDLO Intravenous - Dog - 10 mg/kg(Sulfur)

# Skin corrosion/irritation

Skin - Rabbit(Sulfur) Result: Moderate skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit(Sulfur) Result: No eye irritation

**Respiratory or skin sensitisation** No data available(Sulfur)

Germ cell mutagenicity No data available(Sulfur)

# Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# **Reproductive toxicity**

No data available(Sulfur)

Specific target organ toxicity - single exposure No data available(Sulfur)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Sulfur)

# Additional Information

RTECS: WS4250000

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting., Dermatitis(Sulfur) To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Sulfur)

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fishLC50 - Oncorhynchus mykiss (rainbow trout) - > 180 mg/l - 96 h(Sulfur)LC50 - other fish - 866 mg/l - 96 h(Sulfur)

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - > 5,000 mg/l - 48 h(Sulfur) other aquatic invertebrates

12.2 Persistence and degradability No data available

**12.3 Bioaccumulative potential** No data available

**12.4 Mobility in soil** No data available(Sulfur)

# 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects No data available

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

### Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

14.1	<b>UN number</b> ADR/RID: 1350	IMDG: 1350	IATA: 1350
14.2	UN proper shipping name ADR/RID: SULPHUR IMDG: SULPHUR IATA: Sulphur		
14.3	Transport hazard class(es) ADR/RID: 4.1	IMDG: 4.1	IATA: 4.1
14.4	<b>Packaging group</b> ADR/RID: III	IMDG: III	IATA: III
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user No data available		

#### **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

# **SECTION 16: Other information**

# Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. See <u>www.piochem.com</u> for additional terms and conditions of sale.