

This Safety Data Sheet is prepared according to "Regulation on the Safety Data Sheets Relating to Hazardous Substances and Mixtures" published with the date of 13 December 2014 and No.29204 at Official Gazette.

1-IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Material Name: SULPHUR

CAS No : 7704-34-9

EC No : 231-722-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Used as insect protective in agricultural area and different purposes in industry.

1.3 Details of the supplier of the substance or mixture

Manufacturer/Supplier : Tüpraş

Adress : Türkiye Petrol Rafinerileri A.Ş. Genel Müdürlüğü KÖRFEZ/KOCAELİ

Telephone : +90-262 316 30 00

Fax : +90-262 316 30 10-11

e-mail : omer.ocak@tupras.com.tr

sinasi.seymenbasi@tupras.com.tr

1.4 Emergency Telephone Number

Telephone : 114 (UZEM)

2-HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Flammable solid, Liquid Cat 1,2	H228
Skin Irritation Cat. 2	H315

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2.2 Label Elements

Symbols:



Signal Word: Warning

Hazard statements:

Physical Hazards:

H228- Flammable solid, Liquid

Health hazards:

H315- Causes skin irritation

Precautionary statements:

Prevention:

P210- Keep away from heat / sparks / open flames / hot surfaces. No smoking.

P240- Ground / bond container and receiving equipment.

P241- Use explosion-proof electrical / ventilating / lighting equipment.

P264- Wash hands thoroughly after handling.

P273- Avoid release to the environment.

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

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Response:

P302+P352- IF ON SKIN: Wash with plenty of soap and water.

P321- Specific treatment (see First Aid Measures on Safety Data Sheet).

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

P362- Take off contaminated clothing and wash before reuse.

P370+P378- In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet to extinguish.

Disposal:

P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations

2.3 Other hazards

No data available.

3- COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

CAS NO:	EINECS NO:	Chemical Composition	Concentration	Risk Phrases
7704-34-9	231-722-6	Sulphur	99-100	Flammable solid Cat.1,2 H228 Skin Irritation Cat. 2 , H315
7783-06-4	231-977-3	Hydrogen Sulfide	0-1	Flam. Gas 1, H220 Liquefied gas, H280 Acute Tox. 2 (Inhalation:gas), H330 Aquatic Acute 1, H400

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3.2 Mixtures

Not applicable

4-FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation: If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

Skin Contact: Where skin burns occur the area should be immediately immersed in cold water until the material is thoroughly cooled. Do not attempt to remove the solidified material from the skin, this must be done under medical supervision.

Eye Contact: If hot material enters the eye, flood immediately with cold water to dissipate the heat, if possible, ensuring eyelids are held open. Take the casualty to hospital for examination and treatment without delay.

Ingestion: Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Never give anything by the mouth to an unconscious patient. Seek medical advice.

4.2 Most important symptoms/effects, acute & delayed

Inhalation: inhalation of powders may cause respiratory irritation.

Skin Contact: Causes skin irritation. Risk of thermal burns on contact with molten product.

Eye Contact: Risk of thermal burns on contact with molten product. May cause eye irritation.

Ingestion: Abdominal pain. May cause nausea, vomiting, and diarrhea. Ingestion is likely to be harmful or have adverse effects.

4.3 Indication of immediate medical attention and special treatment needed

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There is no specific antidote or treatment. It should be treated symptomatically.

5-FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Use foam, dry powder or water fog. DO NOT USE water jets. Avoid spraying directly into storage containers because of the danger of boil-over.

FIRES IN CONFINED SPACES SHOULD BE DEALT WITH BY TRAINED PERSONNEL WEARING APPROVED BREATHING APPARATUS.

5.2 Special hazards arising from substance or mixture

Flammable solid. Avoid all ignition sources.

5.3 Advice for fire-fighters

Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

6-ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8.

6.2 Environmental precautions

If contamination of sewers or waterways has occurred advise local emergency services.

6.3 Methods and material for containment and cleaning up

Cool, dry, well-ventilated place in the store. Store away from sources of heat or ignition.

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Scrape up bulk of solid material and remove the remainder with sand or other suitable inert absorbent material. If necessary, clean the resultant area using hot water and detergent: absorb the washings with suitable absorbent material or sand. Do not wash into drains.

6.4 Reference to other sections

Refer to sections 8 and 13.

7-HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid skin and eye contact and breathing in dust. In common with many organic chemicals, may form flammable dust clouds in air. For precautions necessary refer to Safety Data Sheet "Dust Explosion Hazards". Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

7.3 Specific end use

Except as provided in Section 1.2 is not required to offer any specific suggestions.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

There is no appropriate occupational exposure limit for this material. Ensure good ventilation. If vapor, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Sulfur dioxide limit occurring when heated: 2 ppm 8 hr TWA veya 5 ppm STEL

8.2 Exposure controls

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8.2.1 Appropriate engineering controls

Ensure good ventilation.

8.2.2 Personal protective precautions

Wear face visor or goggles in circumstances where eye contact can accidentally occur. If skin contact is likely, wear impervious protective clothing and/or gloves. Protective clothing should be regularly inspected and maintained; overalls should be dry-cleaned, laundered and preferably starched after use.

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9- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Test Unit	Guarantee	Test Method
Appearance		Solid or Liquid	Visual inspection
Odour		Rotten eggs (with trace H ₂ S)/Odorless(Pure Sulphur)	
Odour threshold		No data	
pH		No data	
Melting point / freezing point	°C	119	ASTM D 97
Initial boiling point and boiling range	°C	445	ASTM D 86
Evaporation rate		No data	
Flammability		No data	
Lower/Upper flammability or explosive limits	%	4/44	
Vapor Pressure		No data	
Vapor density		No data	
Relative density (at 15 °C)	Kg/L	2.1	ASTM D 1298
Resolution		No data	
Partition coefficient: n-octanol / water		No data	
Decomposition temperature		No data	
Fluidity (Viscosity) (at 100 °C)		No data	
Ignition temperature	°C	206	ASTM D 93
Explosive properties		No data	
Oxidising properties		No data	

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9.2 Other Information

Mixibility	No data
Oil solubility	No data
Conductivity	No data

10- STABILITY AND REACTIVITY

10.1 Reactivity

Reacts violently with oxidising agents.

10.2 Chemical Stability

Stable under normal conditions of use.

10.3 Possibility of Hazardous Reactions

Dust explosion hazard.

10.4 Conditions to avoid

Avoid dust generation. Avoid exposure to heat, sources of ignition, and open flame.

10.5 Incompatible materials

Incompatible with oxidising agents , reducing agents , bases , halides , flammable materials , metal oxides , metal salts , strong acids.

10.6 Hazardous decomposition products

Sulfur dioxide (SO₂).

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11- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Ingestion: Unlikely to be swallowed in view of the high handling temperatures.

Eye contact: Will cause burns if hot material contacts eyes.

Skin contact: Will cause burns if hot material contacts skin.

Inhalation: May cause irritation to eyes, nose and throat due to exposure to vapour, mists or fumes.

12- ECOLOGICAL INFORMATION

12.1 Toxicity

Take all necessary precautions against accidental spillage into soil and water.

12.2 Persistence and degradability

No data

12.3 Bioaccumulative potential

No data

12.4 Mobility in soil

No data

12.5 Results of PBT and vPvB assessment

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hen is not considered to be PBT or vPvB.

12.6 Other adverse effects

No data

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13- DISPOSAL CONSIDERATIONS

13.1 Waste treatment

methods Material Disposal:

Dispose of via authorised person/licensed waste disposal contractor in accordance with local regulations.

Container Disposal:

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire.

14- TRANSPORT INFORMATION

Land transport (ADR/RID):

ADR

14.1 UN Number : 1350(Solid)/2448 (Liquid)

14.2 UN proper shipping name : SULPHUR/ SULPHUR, LIQUID

14.3 Transport hazard class(es) : 4.1

14.4 Packing group : III

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

RID

14.1 UN Number : 1350(Solid)/2448 (Liquid)

14.2 UN proper shipping name : SULPHUR/ SULPHUR, LIQUID

14.3 Transport hazard class(es) : 4.1

14.4 Packing group : III

14.5 Environmental hazards : Environmentally Hazardous

14.6 Special precautions for user : Refer to Chapter 7

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Inland waterways transport (ADN):

- 14.1 UN Number :** 1350(Solid)/2448 (Liquid)
14.2 UN proper shipping name : SULPHUR/ SULPHUR, LIQUID
14.3 Transport hazard class(es) : 4.1
14.4 Packing group : III
14.5 Environmental hazards : Environmentally Hazardous
14.6 Special precautions for user : Refer to Chapter 7

Sea transport (IMDG Code):

- 14.1 UN Number :** 1350(Solid)/2448 (Liquid)
14.2 UN proper shipping name : SULPHUR/ SULPHUR, LIQUID
14.3 Transport hazard class(es) : 4.1
14.4 Packing group : III
14.5 Marine pollutant : Yes
14.6 Special precautions for user : Refer to Chapter 7

Air transport (IATA):

- 14.1 UN Number :** 1350(Solid)/2448 (Liquid)
14.2 UN proper shipping name : SULPHUR/ SULPHUR, LIQUID
14.3 Transport hazard class(es) : 4.1
14.4 Packing group : III
14.5 Environmental hazards : Environmentally Hazardous
14.6 Special precautions for user : Refer to Chapter 7



SAFETY DATA SHEET, SULPHUR

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data.

IMSBC CODE : C

15- REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet, Environment and Urban Planning Ministry by December 13, 2014 date and 29204 numbered published in the Official Gazette of Hazardous Substances Regulation on safety data sheets of mixtures' Environment and Forestry and the Ministry of 26 by December 2008, and 27092 (bis) Official Gazette published "Classification of Hazardous Substances and preparations Regulations on Packaging and Labelling 'base is based.

16- OTHER INFORMATION

Hazard Statements:

H228- Flammable solid, Liquid

H315- Skin Irritation

This data sheet and the health, safety and environmental information it contains is considered to be accurate as of the date specified below. We have reviewed any information contained herein which we received from sources outside TÜPRAŞ. However, no warranty or representation, express or implied is made as to the accuracy or completeness of the data and information contained in this data sheet.

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