

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture

Component	CAS No.	EC No.	Conc. (% w/w)	CLP Classification
Bitumen (Petroleum)	8052-42-4	232-490-9	93 – 97	Asp. Tox. 1; H304
Styrene-Butadiene-Styrene (SBS) Copolymer	9003-55-8	—	3 – 7	Not classified
Hydrogen Sulfide (trace, in vapour phase)	7783-06-4	231-977-3	< 0.001	Flam. Gas 1; H220. Acute Tox. 2; H330. STOT SE 3; H335. Aquatic Acute 1; H400. Aquatic Chronic 1; H410

4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

Inhalation: If inhalation of fumes, mists, or vapours causes irritation to the nose, throat, or coughing, remove the affected person to fresh air immediately. If symptoms persist, obtain medical advice. In case of H₂S exposure, remove casualty immediately; if unconscious, place in recovery position. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

Skin Contact (Cold Product): Wash skin thoroughly with soap and water. Remove contaminated clothing. (Hot Product): Immediately flood the affected area with cold water to dissipate heat. Do not attempt to remove bitumen adhered to skin. Cover burns with clean sterile dressing and transport to hospital. Never use gasoline, kerosene, or solvents to remove bitumen from skin.

Eye Contact (Cold Product): Wash eyes thoroughly with copious quantities of clean water for at least 15 minutes, holding eyelids open. Obtain medical advice if pain or redness persists. (Hot Product): Flood with cold water immediately. Obtain medical attention without delay.

Ingestion: Wash out mouth with water. Do not induce vomiting. Obtain medical advice.

4.2 Most Important Symptoms and Effects

Hot product causes severe thermal burns to skin and eyes. Inhalation of fumes may cause respiratory irritation. H₂S exposure at high concentrations may cause loss of consciousness, respiratory failure, and death.

4.3 Indication of Immediate Medical Attention

There are no specific antidotes. Treat symptomatically. Burns from hot material should receive specialist medical treatment.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable: Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO₂), water spray (fog), sand.

Unsuitable: Do NOT use direct water jets on molten product — risk of violent steam explosion and boil-over.

5.2 Special Hazards

Combustion produces toxic fumes including carbon monoxide (CO), carbon dioxide (CO₂), sulfur dioxide (SO₂), hydrogen sulfide (H₂S), and nitrogen oxides (NO_x). Flash point > 250 °C (Cleveland Open Cup). The product is not readily flammable but may burn at elevated temperatures.

5.3 Advice for Firefighters

Wear self-contained breathing apparatus (SCBA) and full protective clothing. Use water spray to cool containers exposed to fire. For large fires, notify the fire brigade. Ensure an escape path is always available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Wear appropriate PPE (see Section 8). Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Hot product releases H₂S; in confined spaces, use SCBA.

6.2 Environmental Precautions

Prevent entry into drains, watercourses, and soil. Notify relevant authorities in case of environmental contamination. Spilled product makes surfaces slippery.



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6.3 Methods for Containment and Cleaning Up

Allow hot spillage to cool and solidify before collection. Scrape up solid material mechanically. Absorb residues with inert material (sand, vermiculite) and collect in suitable labelled containers for disposal. Large spillages should be handled by trained specialist personnel.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Avoid generation and inhalation of fumes. Avoid contact with skin, eyes, and clothing. Use only non-sparking tools. Keep away from heat, sparks, open flames, and other ignition sources. Wash hands before breaks and after handling. Do not eat, drink, or smoke while handling. Product may release H₂S — monitor atmospheres in confined or poorly ventilated areas.

7.2 Conditions for Safe Storage

Store and handle only in well-ventilated areas away from ignition sources. If stored hot, maintain temperature between 150 °C and 180 °C. Do not exceed 200 °C. Prolonged storage above 180 °C will cause product degradation and H₂S evolution. Empty tanks/containers may contain residual hazardous vapours. Containers must be properly labelled and kept closed when not in use.

7.3 Specific End Uses

Road paving binder, waterproofing membrane, industrial protective coatings. Refer to Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Substance	OEL (TWA — 8 h)	OEL (STEL — 15 min)
Bitumen fumes (as aerosol)	5 mg/m ³ (ACGIH TLV)	—
Hydrogen Sulfide (H ₂ S)	10 ppm (ACGIH TLV)	15 ppm (ACGIH STEL)

8.2 Exposure Controls

Engineering Controls: Ensure adequate ventilation. Use local exhaust ventilation where fumes are generated.

Eye/Face Protection: Wear face visor or heat-resistant safety goggles when handling hot product. Wear safety glasses with side shields for cold product.

Skin Protection: Wear heat-resistant protective clothing, chemical-resistant gloves (nitrile or neoprene), and safety footwear when handling hot product.

Respiratory Protection: Use combination filter respirator (Type A1/P2) if fume exposure is anticipated. Use approved SCBA where H₂S may be present.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Appearance	Black to dark brown, semi-solid to viscous liquid (when heated)
Odour	Mild bituminous; may release H ₂ S odour when heated
Physical State	Semi-solid at ambient temperature
pH	Not applicable
Melting/Softening Point	≥ 55 °C (Ring & Ball, EN 1427, grade dependent)
Boiling Point	> 400 °C
Flash Point	> 250 °C (Cleveland Open Cup, EN ISO 2592)
Auto-ignition Temperature	> 350 °C
Decomposition Temperature	> 300 °C
Density at 25 °C	1.00 – 1.05 g/cm ³
Kinematic Viscosity at 135 °C	Typically > 1,000 mm ² /s (grade dependent)
Solubility in Water	Insoluble



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Solubility in Organic Solvents	Soluble in toluene, xylene, trichloroethylene
Vapour Pressure at 20 °C	Negligible
Explosive Properties	Not explosive
Oxidising Properties	Not oxidising

10. STABILITY AND REACTIVITY

10.1 Reactivity

Combustion produces toxic gases.

10.2 Chemical Stability

Stable under recommended storage and handling conditions.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

10.4 Conditions to Avoid

Temperatures above 230 °C. Contact with water when product is hot (steam explosion risk). Open flames, sparks, and other ignition sources.

10.5 Incompatible Materials

Strong oxidizing agents, strong acids. Water contact with molten bitumen causes violent foaming/boil-over.

10.6 Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide, carbon dioxide, sulfur oxides, hydrogen sulfide, and polycyclic aromatic hydrocarbons (PAHs) at high temperatures.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity (Oral)	LD ₅₀ > 5,000 mg/kg (rat) — Not classified
Acute Toxicity (Dermal)	LD ₅₀ > 2,000 mg/kg (rabbit) — Not classified
Acute Toxicity (Inhalation)	LC ₅₀ > 5 mg/L (4h, rat) — Not classified
Skin Irritation/Corrosion	Hot product causes severe thermal burns
Eye Irritation/Corrosion	Hot product causes severe eye burns
Sensitization	Not known to be a skin or respiratory sensitizer
Mutagenicity	No mutagenic effects reported (Ames test negative)
Carcinogenicity	IARC Group 3 — Not classifiable as carcinogenic to humans. Bitumen fume extracts: IARC Group 2B (possibly carcinogenic)
Reproductive Toxicity	No adverse reproductive effects reported
STOT (Single Exposure)	May cause respiratory irritation from fumes (H ₂ S component)
STOT (Repeated Exposure)	Prolonged dermal contact may cause dermatitis
Aspiration Hazard	Category 1 (H304) — when in liquid state

12. ECOLOGICAL INFORMATION

12.1 Toxicity	Low toxicity to aquatic organisms. LC ₅₀ (fish, 96h): > 1,000 mg/L
12.2 Persistence & Degradability	Not readily biodegradable
12.3 Bioaccumulative Potential	Low bioaccumulation potential (log K _{ow} not applicable for complex substance)
12.4 Mobility in Soil	Low mobility. Product solidifies at ambient temperature
12.5 PBT / vPvB Assessment	Does not meet PBT/vPvB criteria (REACH Annex XIII)
12.6 Other Adverse Effects	No known adverse effects on the ozone layer



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13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Dispose of by incineration or other approved methods via a licensed waste disposal contractor. Do not allow to enter surface water or drains. European Waste Catalogue (EWC): 17 03 02 (bituminous mixtures other than those containing coal tar). Observe all local, regional, national, and international waste disposal regulations.

Container Disposal: Drain container thoroughly. Empty containers may retain residual product vapour. Do not cut, weld, or heat empty containers without proper cleaning. Dispose of packaging in accordance with applicable regulations.

14. TRANSPORT INFORMATION

Parameter	ADR / RID / AND	IMDG / IMO
UN Number	UN 3257	UN 3257
UN Proper Shipping Name	Elevated temperature liquid, n.o.s., at or above 100 °C and below its flash point	Elevated temperature liquid, n.o.s., at or above 100 °C and below its flash point
Transport Hazard Class	9	9
Packing Group	III	III
Environmental Hazard	No	Not a marine pollutant

Note: Material is in solid form below 100 °C and may be transported in solid state without hazard classification. Air transport (IATA): Not regulated in solid form.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations

This SDS is prepared in accordance with Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP/GHS). Turkish national legislation: T.C. Çevre, Şehircilik ve İklim Değişikliği Bakanlığı — "Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmelik" (13.12.2014, Resmi Gazete No: 29204).

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this mixture.

16. OTHER INFORMATION

Full Text of H-Statements Referred to in Sections 2 and 3:

H220: Extremely flammable gas. H304: May be fatal if swallowed and enters airways. H330: Fatal if inhaled. H335: May cause respiratory irritation. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

Abbreviations:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. CLP: Classification, Labelling and Packaging. GHS: Globally Harmonized System. ADR: European Agreement for International Carriage of Dangerous Goods by Road. RID: International Carriage of Dangerous Goods by Rail. IMDG: International Maritime Dangerous Goods Code. IATA: International Air Transport Association. ACGIH: American Conference of Governmental Industrial Hygienists. TLV: Threshold Limit Value. TWA: Time-Weighted Average. STEL: Short-Term Exposure Limit. OEL: Occupational Exposure Limit. SCBA: Self-Contained Breathing Apparatus. PPE: Personal Protective Equipment. PBT: Persistent, Bioaccumulative and Toxic. vPvB: Very Persistent, Very Bioaccumulative.

SANCTIONS AND TRADE COMPLIANCE

ATABAŞ GLOBAL DIŞ TİCARET ANONİM ŞİRKETİ conducts its business in full compliance with the economic and trade sanctions regimes administered by the United States (OFAC), the European Union, the United Kingdom (OFSI) and the United Nations Security Council. ATABAŞ does not work with sanctioned countries, sanctioned companies, sanctioned individuals or sanctioned vessels, and does not supply, source, finance or transport goods in breach of these regimes. All counterparties are subject to Know-Your-Customer and sanctions screening before contract signature and throughout performance.

Disclaimer:

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