



MATERIAL SAFETY DATA SHEET

PETROLEUM BITUMEN (STANDARD PENETRATION & VISCOSITY GRADES)



Issuing Company

Austin Company (Austin Bitumen Plant)



Industrial Location:

Sulaymaniyah, Arbat, Dararash road,
Arbat New Industrial City



Regulatory Scope:

International Transport Of Hazardous
& GHS Export Compliance (UN 3257 / ADR / IMDG)



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SECTION

01

PRODUCT AND COMPANY IDENTIFICATION

CATEGORY	DETAIL
Product Name	Bitumen
Bitumen Penetration Grade	(40-50, 60-70, 50-70, 70-100, 85-100, 160-220, and 200-300)
Bitumen Viscosity Grade	(VG10, VG20, VG30, and VG40)
Product Uses	Road construction, waterproofing, and asphalt production
HS Code	27132000 (Petroleum Bitumen)
Packing	Drums, Jumbo Bags, and Bulk Tankers
Company Name	Austin Bitumen Plant Company
Address	Sulaymaniyah, Arbat - Dararash road, Arbat New Industrial City
Website	www.austiniraq.com
Email	info@austiniraq.com
Phone Number	+9647701533171

SECTION 02 BITUMEN PACKING SPECIFICATION

1. Drum Specifications

Item	Value
Packaging in	150–200 kg
Drum Height	100 cm
Drum Diameter	50 cm
Lid Diameter	10 cm
Empty Drum Weight	Approximately 9.7 kg



2. Jumbo Bag Specifications

Item	Value
Packaging in	1,000–1,100 kg
Jumbo Bag Height	100 cm
Jumbo Bag Diameter	107 cm
Diameter of Lid	TBD (To Be Determined)
Empty Jumbo Bag Weight	Approximately 25.5 kg



3.Tanker Specifications

Item	Value
Transport Capacity	Bulk tanker (typically 25,000 – 30,000 kg per consignment)
Tanker Height	Dimensions vary depending on the tanker model.
Tank Diameter	TBD (To Be Determined)
Lid Diameter	TBD (To Be Determined)
Empty Tanker Weight	Typical tare weight (7,000-8,000 kg per chassis / tanker unit)



SECTION 03

COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	EC Number	REACH Registration Number	Use
Bitumen	8052-42-4	232-490-9	01-2119480172-44-XXXX	Used in asphalt production
Oxidized Bitumen	64742-93-4	265-196-4	01-2119498270-36-XXXX	Used for waterproofing and road maintenance

SECTION 04

PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE
Physical State	Solid or semi-solid
Appearance	Viscous liquid at 70 °C
Color	Black or dark brown
Odor	Characteristic asphalt-like odor
Melting point	Varies by grade
Initial boiling point	Above 300 °C
Flash point	200 – 250°C (Varies with pressure)
Autoignition Temperature	Not established (NE)
Freezing point	Not established (NE)
pH	Not applicable (NA)

SECTION 05

HAZARD IDENTIFICATION

THERMAL HAZARD

Contact and Thermal Hazards: Contact with cold material may cause dermatitis. Contact with hot material will cause severe thermal burns. Exposure to asphalt fumes increases skin sensitivity to sunburn. However, this product is not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP).

TOXICOLOGY

Biological & Animal Testing: Comprehensive animal studies, including assessments of skin irritation, eye irritation, inhalation toxicity, and thermal toxicity, indicate that the product does not exhibit systemic chemical toxicity.

FUMES & VAPORS

Decomposition Products: Thermal decomposition products, including sulfur oxides, hydrogen sulfide, and carbon monoxide, can cause irritation to the eyes and respiratory tract. High concentrations of these gases in confined spaces may cause central nervous system depression.

SECTION 06

FIRST AID MEASURES

OVERVIEW

General Emergency Principle: Immediate care provided to an individual suffering from a thermal burn, heat-related illness or chemical exposure before professional medical assistance arrives

EYE CONTACT

Emergency Eye Irrigation: Remove contact lenses, if eye irritation occurs, rinse cautiously with clean water for at least 15 minutes, obtain prompt medical attention.

SKIN BURNS

Thermal Skin Exposure: Immediately cool molten material adhering to the skin with plenty of water. Do not forcibly remove solidified bitumen from burned skin. Seek immediate specialist treatment for burns.

INHALATION

Respiratory First Aid: Move the affected person to fresh air. If the affected person experiences respiratory discomfort, dizziness, nausea, or loses consciousness, administer oxygen and seek emergency medical assistance.

INGESTION

Accidental Consumption: In the event of accidental ingestion, seek medical advice immediately. Do not induce vomiting.

SECTION 07

ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES

Spill Notification & Isolation: Isolate the area surrounding the leak. Cover molten spills with dry, inert absorbent material(sand or earth). Prevent liquid spills from entering storm sewers, waterways, or drains and avoid direct contact with soil. Report releases in accordance with local regulatory requirements. product is not classified as hazardous to the aquatic environment.

CLEANUP

Solidification & Removal: Allow the molten product to cool and solidify naturally. Collect the released material mechanically and transfer it to approved containers for reuse, recycling, or certified disposal.

PROTECTION

Personal Safety Standards: For required personal protective equipment (PPE) during release containment, refer to Section 10.

SECTION 08

FIRE-FIGHTING MEASURES

FLAMMABILITY

Combustion Profile: Non-flammable under standard conditions, with a very low ignition risk during appropriate handling and storage.

EXTINGUISHING

Approved Media: SUITABLE: ABC dry chemical powder, Carbon Dioxide (CO₂), firefighting foam, or water fog spray. UNSUITABLE: A direct water jet, as direct contact between water and hot molten material causes violent frothing and steam flash eruptions.

PROCEDURES

Firefighter Tactics: Personnel must wear full heat-resistant PPE and self-contained breathing apparatus (SCBA) in confined or smoke-dense areas. Use water spray exclusively to cool the exterior surfaces of storage vessels that are not on fire.

SECTION 09

HANDLING AND STORAGE

STORAGE

Bulk Storage Conditions: Store in tightly closed, insulated containers away from open flames, electrical arcs, and food storage. Maintain bulk liquid storage at temperatures between 130 °C and 170 °C depending on the bitumen grade. Keep containers clearly labeled and sealed.

OPERATIONS

Safe Handling Procedures: Wear certified thermal PPE. Transfer liquid at moderate pumping velocities to prevent the accumulation of electrostatic charge. Do not eat, drink, or smoke in operational handling zones. Wash hands and exposed skin thoroughly at the end of each shift.

SECTION 10

EXPOSURE CONTROLS / PERSONAL PROTECTION

REGULATION

PPE Compliance Standard: All personal protective equipment must comply with the applicable requirements of Regulation (EU) 2016/425.

RESPIRATORY

Fume and Dust Protection: Use certified respiratory protection in confined spaces or poorly ventilated transfer areas , or when asphalt fume thresholds are exceeded.

EYE & FACE

Visual Protection: Wear chemical splash goggles and full-face thermal shields (CAT II / EN ISO 4007:2018 meeting the applicable CEN standards).

BODY & HANDS

Thermal Burn Protection: Wear heat-insulated protective gloves (CAT I / EN 407), heavy-duty fire-retardant coveralls (CAT I), and heat-resistant, slip-resistant safety boots (CAT II).



SECTION
11

STABILITY AND REACTIVITY

STABILITY

Chemical & Thermal Stability: Stable under normal conditions of handling, storage, and cross-border transport.

REACTIVITY

Hazardous Polymerization: No hazardous polymerization or decomposition occurs under normal operational conditions.

AVOID

Critical Operational Limits: Avoid overheating above the flash point. Extreme temperatures may cause thermal cracking and the release of hazardous gases (H₂S, CO, and Sulfur oxides)

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TRANSPORT INFORMATION

This document provides an expanded regulatory and operational breakdown for commodities transported under elevated thermal conditions. Such shipments fall under designated international dangerous goods frameworks, including European agreements governing land transport(ADR/RID), agreements governing inland waterway transport (ADN), and the International Maritime Dangerous Goods (IMDG) Code for Maritime Transport. The table below consolidates statutory parameters and extended field guidance across both transport regimes.

Specification Parameter	Land and Inland Waterway Transport (ADR / RID / ADN)	Maritime Sea Transport (IMDG Code)
Regulatory Framework(s)	ADR (Road), RID (Rail), ADN (Inland Navigation)	IMDG Code (Maritime / Ocean Freight)
UN / Identification Number	UN 3257	UN 3257
Proper Shipping Name (PSN)	ELEVATED TEMPERATURE LIQUID, N.O.S. (at or exceeding 100°C and below its flashpoint)	ELEVATED TEMPERATURE LIQUID, N.O.S. (at or exceeding 100°C and below its flashpoint)
Transport Hazard Class	Class 9 (Miscellaneous Dangerous Substances and Articles)	Class 9 (Miscellaneous Dangerous Substances and Articles)

Specification Parameter	Land & Inland Waterways (ADR / RID / ADN)	Maritime Sea Transport (IMDG Code)
Classification Code / Division	M9 (Substances transported at elevated temperatures)	Class 9 (Marine General Schedule)
Packing Group (PG)	PG III (Minor danger / Low degree of hazard)	PG III (Minor danger / Low degree of hazard)
Environmental / Marine Hazards	No (not classified as an environmentally hazardous substance...) under 2.2.9.1.10)	No (Not classified as a Marine Pollutant according to MARPOL Annex III / IMDG criteria)

SECTION 13

REGULATORY INFORMATION

COMPLIANCE

Compliance with Precursor Regulations:

- Explosives Precursors (EU 2019/1148): Does not contain restricted explosive precursor substances.
- Drug Precursors (EC 273/2004): Does not contain scheduled drug precursor substances.

INVENTORIES

Statutory Chemical Inventories: Listed as active in major international chemical inventories:

- United States TSCA (Toxic Substances Control Act) – Active Inventory Status
- Canadian DSL (Domestic Substances List) – Authorized and compliant
- Mexican INSQ (Inventario Nacional de Sustancias Químicas) – Registered

SECTION 14

OTHER INFORMATION

Abbreviation / Term	Full Term / Definition	Description / Application
MSDS / SDS	Material Safety Data Sheet / Safety Data Sheet	A safety document describing hazards, handling requirements, and transport information.
CAS Number	Chemical Abstracts Service Registry Number	A unique numerical identifier assigned to a chemical substance.
REACH	Registration, Evaluation, Authorisation of Chemicals	EU Regulation (EC 1907/2006) for chemical safety.
CLP	Classification, Labelling and Packaging	EU Regulation (EC 1272/2008) aligning with UN GHS.
HS Code	Harmonized Commodity Description & Coding System	Tariff code (27132000 for Petroleum Bitumen).
UN 3257	United Nations Substance Identification Number	UN identification number for elevated-temperature liquids ($\geq 100^{\circ}\text{C}$).
ADR / IMDG	International dangerous goods transport regulations (road and sea)	EU Regulation (EC 1907/2006) for chemical safety.
PG III	Packing Group III	Dangerous goods category indicating low hazard rating.
PPE / SCBA	Personal Protective Equipment / Breathing Apparatus	Thermal protective equipment and respiratory protection for personnel.
NE / NA / TBD	Not Established / Not Applicable / To Be Determined	Industrial abbreviations for values that are pending, unavailable, or not applicable