

Product: Bitumen of Judea

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1. Identification

Product identifier: Bitumen of Judea

Recommended use of the chemical: Used for ageing effects in painted projects or not.

Identification Code: 15810 / 15850

Supplier's name: Acrilex Tintas Especiais S.A.

Address: Estrada Galvão Bueno, Nº 5000 - Batistini

Complement: São Bernardo do Campo - São Paulo

Supplier's phone number: (11) 4397-9255

Emergency phone number: (11) 4397-9258

2. Hazard identification

Classification of the substance or mixture: Flammable liquids: Category 3 - Eye damage/irritation: Category 2A - Sensitization – skin: Category 1 - Specific target organ toxicity (single exposure): Category 3 - Specific target organ toxicity (repeated exposure): Category 2 - Aspiration hazard: Category 1 - Hazardous to the aquatic environment – short-term (acute) hazard: Category 3

GHS labelling



Signal Word: Danger

Hazard Statement: H226 - Flammable liquid and vapour . H319 - Causes serious eye irritation . H317 - May cause an allergic skin reaction . H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs. central nervous system. H304 - May be fatal if swallowed and enters airways . H402 - Harmful to aquatic life .

Precautionary statements:

- **General:** P102 - Keep out of reach of children.
- **Prevention:** P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources . No smoking.
- **Response:** P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- **Storage:** P235 - Keep cool.
- **Disposal:** P501 - Dispose of contents/container to in a suitable place.

Other hazards which do not result in classification: May cause headache, nausea, dizziness and mental confusion

Other information: Not available



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3. Composition/Information on ingredients

Product Type: Mixture

Hazardous ingredients or impurities and/or stabilizing additives which contribute to hazard classification:

Chemical identity	CAS N°	Percentages or ranges of percentages
Asphalt (bitumen)	8052-42-4	50 - 70
Aliphatic Hydrocarbon	64742-47-8	15 - 19
Xylene	108-38-3	9 - 11

4. First-aid measures

First-aid measures

- **Inhalation:** Remove the victim to fresh air and keep at rest in a comfortable position for breathing. Seek for medical assistance.
- **Skin contact:** Remove contaminated clothing, wash with water and soap. Seek for medical assistance.
- **Eye contact:** Wash with plenty water for 15 minutes, keep the eyelids open. Seek for medical assistance.
- **Ingestion:** Do NOT induce vomiting. Seek for medical assistance.

Most important symptoms/effects, acute and delayed: Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May cause damage to organs: central nervous system. May be fatal if swallowed.

Indication of immediate medical attention and special treatment: Central nervous system depressant . Symptomatic treatment.

5. Fire-fighting measures

Suitable extinguishing media: Hydrocarbons foam, Foam extinguishers, dry chemical powder, CO2 (carbon dioxide), water nebulization. Cool off the burning packages and take packages which were not affected away from the flames.

Unsuitable extinguishing media: Direct water jet.

Specific hazards arising from the chemical: It may release toxic gases during the burning.

Special protective actions for fire-fighters: Use self-contained clothing and adequate protection.

6. Accidental release measures



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Personal precautions, protective equipment and emergency procedures

- **For non-emergency personnel:** Personal protective equipment.
- **For emergency responders:** Personal protective equipment.

Environmental precautions: Shut off leak if possible, avoid contamination of rivers, lakes and water sources by preventing the flow of material into water streams, pipelines and water facilities.

Methods and materials for containment: Absorb with soil or other absorbent material.

Area isolation: Keep unauthorized persons away from the area.

Methods and materials for cleaning up: The cleaning of the place should be made with water and mild detergent. Collect the material in metallic / plastic drums and in good conditions. Disposal must be performed according to the local legislation in force.

7. Handling and storage

Precautions for safe handling

- **Prevention of workers exposure:** Handle in accordance with established safety standards. Use personal protective equipment.
- **Fire and explosion:** Ground equipment when handling. Do not smoke. Do not handle the product near heat sources or ignition.
- **Precautions for safe handling:** Use appropriate personal protective equipment. Avoid contact with skin, eyes and mucous membranes. Handle the product in a cool and well ventilated place. Do not reuse the package. Do not smoke, eat or drink in the product handling area.
- **Hygiene measures**
 - **Suitable:** Wash your hands before eating, drinking or using the toilet. Contaminated clothes should be changed and washed before reuse.
 - **Unsuitable:** Do not eat, drink or smoke during the product handling.

Conditions for safe storage

- **Conditions for safe storage:** Store the product in cool, dry and ventilated areas away from heat, ignition sources, food and oxidizing agents. Keep packages always closed.
- **Conditions to avoid including incompatibilities:** Avoid wet areas, outdoor, and without ventilation. Do not store the product with explosive materials, flammable gases and/or toxic, oxidizing substances, corrosive, organic peroxides, spontaneous combustion materials and radioactive Conditions to avoid, including materials.
- **Packaging materials**
 - **Suitable:** Metallic drums coated internally with varnish and/or plastic containers.
 - **Unsuitable:** Not Available.

Other information: Not Available.

8. Exposure controls/personal protection



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Control parameters

- **Occupational exposure limits:** Not Available.
- **Biological indicators values:** Not Available.
- **Other limits and values:** Not Available.

Appropriate engineering controls: Maintain adequate ventilation. Keep emergency shower and eye shower close to workplaces.

Individual protection measures, such as personal protective equipment

- **Eye/face protection:** Safety glasses for chemical products.
- **Skin protection:** Gloves, PVC apron and closed shoes according to working conditions.
- **Respiratory protection:** Mask with chemical filter for organic vapor protection.
- **Hands protection:** PVC gloves or others resistant to organic solvents.
- **Thermal hazards:** Not available.

Other information: Not Available.

9. Physical and chemical properties

- **Appearance**
Physical state: Liquid; **Form:** Liquid; **Color:** Black
- **Odour:** Typical
- **Odour threshold:** Not available.
- **pH:** Not available
- **Melting point/freezing point:** Not available.
- **Initial boiling point:** Not available.
- **Boiling range:** Not available.
- **Flash point:** 40 °C Test: (closed cup)
- **Evaporation rate:** Not available.
- **Flammability (solid, gas):** Not available.
- **Lower flammability or explosive limits:** Not available.
- **Upper flammability or explosive limits:** Not available.
- **Vapour pressure:** Not available.
- **Vapour density:** Not available.
- **Relative density:** 0,944 g/cm³
- **Solubility(ies):** Insoluble in water, soluble in aromatic hydrocarbons
- **Partition coefficient: n-octanol/water:** Not available.
- **Auto-ignition temperature:** Not available.
- **Decomposition temperature:** Not available.
- **Viscosity:** Not available.



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- **Additional information:** Not available.

10. Stability and reactivity

Chemical stability: Stable in normal conditions of storage and handling.

Reactivity: Not available.

Possibility of hazardous reactions: None, when the product is stored, handled and processed correctly.

Conditions to avoid: Exposure to high temperatures for prolonged periods may cause changes in the product.

Incompatible materials: Strong oxidizing agents (liquid chlorine and concentrated oxygen)

Hazardous decomposition products: Can release toxic gases during firing.

11. Toxicological information

Acute toxicity: The product is not classified according to criteria for this hazard GHS

Skin corrosion/irritation: The product is not classified according to criteria for this hazard GHS

Serious eye damage/irritation: Causes serious eye irritation

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: The product is not classified according to criteria for this hazard GHS

Carcinogenicity: The product is not classified according to criteria for this hazard GHS

Reproductive toxicity: The product is not classified according to criteria for this hazard GHS

STOT-single exposure: May cause drowsiness or dizziness

STOT-repeated exposure: May cause damage to organs central nervous system

Aspiration hazard: May be fatal if swallowed and enters airways.

Additional information: May cause headache , nausea, dizziness and mental confusion

12. Ecological information

Toxicity: Harmful to aquatic organisms

Persistence and degradability: Not available.

Bio accumulative potential: Not available.

Mobility in soil: Moderately volatile. Contact the local environmental agency , in case of spillage to surface water sources or soil.

Other adverse effects: Product miscible in water. Avoid contamination of rivers, lakes and water sources preventing the flow of material into waterways, pipelines and galleries.

13. Disposal considerations

Disposal methods



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- **Product:** The treatment and disposal of the product should be technically evaluated, case by case. Remaining products must be discarded in authorized installation.
- **Used package:** Discard in authorized installation. Do not reuse the package.

14. Transport information

National and international regulations:

Land Transport:

- **UN Number:** 1999
- **UN Proper Shipping Name:** TARS, LIQUID, including road oils, and cutback bitumens
- **Class or division:** 3 - Flammable liquids
- **Risk number:** 30
- **UN Packing group:** III
- **Technical name:** Bitumen
- **Environmental hazards:** Yes
- **Terrestrial (Road) Transport Regulation:** ONU - Orange Book

Sea Transport:

- **IMDG/GGVSea/ONU:** ONU 1999
- **Transport hazard class(es):** 3
- **UN Packing group:** III
- **Technical name:** Bitumen
- **Marine Pollutant:** Yes
- **Waterway Transport Regulation:** - IMDG Code handbook (International Maritime Dangerous Goods Code) from IMO (International Maritime Organization)

Aerial Transport:

- **ICAO/IATA/ONU:** ONU 1999
- **Transport hazard class(es):** 3
- **UN Packing group:** III
- **Technical name:** Bitumen
- **Environmental hazards:** Yes
- **Aerial Transport Regulation:** - IATA handbook (International Air Transportation Association)

15. Regulatory information

Safety, health and environmental regulations specific for the product:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



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16. Other information

Other information that does not belong in other sections:

This Safety Data Sheet (SDS) has been prepared based on current knowledge about chemicals and provides information about protection, safety, health and environment. It is warned that any chemical handling requires prior knowledge of its hazards by the user. The user company is responsible to promote the training of its employees about the potential product risks.

References: [ECHA] EUROPEAN CHEMICAL AGENCY. Available in: <http://echa.europa.eu/>
[HSNO] NEW ZEALAND HSNO Chemical Classification and Information Database (CCID)
[OSHA] OSHA'S Hazard Communication. Available in: <https://www.osha.gov/dsg/hazcom/>
[GHS] Globally Harmonized System of Classification and Labelling of Chemicals

Subtitles and abbreviations: ACGIH - American Conference of Governmental Industrial
BCF - Bioconcentration factor
CAS - Chemical Abstracts Service