

Product: Turpentine

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1. Identification

Product identifier: Turpentine**Recommended use of the chemical:** Natural Vegetal diluents for the Oil Colors. Does not change its brightness nor the characteristic drying time.**Identification Code:** 15310/15350**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 - Skin corrosion/irritation: Category 2 - Eye damage/irritation: Category 2A - Sensitization – skin: Category 1 - Hazardous to the aquatic environment – short-term (acute) hazard: Category 3 - Hazardous to the aquatic environment – long-term (chronic) hazard: Category 2

GHS labelling

**Signal Word:** Warning**Hazard Statement:** H226 - Flammable liquid and vapour . H315 - Causes skin irritation . H319 - Causes serious eye irritation . H317 - May cause an allergic skin reaction . H402 - Harmful to aquatic life . H411 - Toxic to aquatic life with long lasting effects .**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. P273 - Avoid release to the environment.
- **Response:** P302 + P352 - IF ON SKIN: Wash with plenty water. P331 - Do NOT induce vomiting.
- **Storage:** P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
- **Disposal:** P501 - Dispose of contents/container to in a suitable place.

Other hazards which do not result in classification: Containers may explode if heated. The combustion of the chemical products or containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide.**Other information:** Not available



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3. Composition/Information on ingredients

Product Type: Substance

Common chemical name or technical name: turpentine

Synonym: Terpene Hydrocarbons

CAS N°: 8006-64-2

This substance does not contain impurities that contribute to its hazard.

4. First-aid measures

First-aid measures

- **Inhalation:** Remove to an uncontaminated place , apply artificial respiration if there is respiratory arrest. Forward to medical care
- **Skin contact:** Immediately remove contaminated clothing and shoes . Wash skin with plenty of water for at least 20 minutes, preferably under an emergency shower . Seek medical assistance immediately, taking the product label whenever possible
- **Eye contact:** Rinse with plenty of water for 20 minutes, keeping eyelids open. Preferably use an eyewash . Seek medical assistance immediately, taking the product label whenever possible
- **Ingestion:** Do not induce vomiting . If the victim is conscious, rinse your mouth with plenty of clean water . Seek medical assistance immediately, taking the product label whenever possible

Most important symptoms/effects, acute and delayed: Causes skin irritation with redness, dryness and pain. Causes eye irritation with redness, pain and tearing. May cause irritation of the respiratory tract. May cause drowsiness or dizziness. May be fatal if swallowed and enters the respiratory tract.

Indication of immediate medical attention and special treatment: Symptomatic treatment

5. Fire-fighting measures

Suitable extinguishing media: Flammable liquid. In case of accident, dry chemical powder and foam extinguishers are the most effective, can be used also carbon dioxide (CO₂)

Unsuitable extinguishing media: Direct waterjet

Specific hazards arising from the chemical: Vapors may travel to an ignition source and cause kickback flames . Containers may explode in the heat of the fire. There is steam explosion hazard indoors or sewage system. Keep it away from the tanks . Fire can cause the emission of irritating gases or poisonous

Special protective actions for fire-fighters: Indoors, use rescue equipment with air supply

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures



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- **For non-emergency personnel:** Personal protective equipment . Avoid contact with eyes and skin . Avoid inhalation of mist / vapors . Avoid direct contact with the liquid
- **For emergency responders:** Use of SCBA and suitable protective clothing . Indoors, use rescue equipment with air supply

Environmental precautions: Shut off leak if possible, do not direct the spilled material to any public drainage systems. Avoid the possibility of contamination of surface water or springs. Restrict spill to the smallest area possible. The drag water must take into account the further treatment of contaminated water. Avoid this drag

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

Area isolation: As an immediate precautionary action , isolate the area within a radius of 50 meters, to say the least , in all directions

Methods and materials for cleaning up: Collect the product in an emergency container , duly labeled and well closed. Keep the recovered product for subsequent disposal

7. Handling and storage

Precautions for safe handling

- **Prevention of workers exposure:** Use personal protective equipment to avoid contact with the product
- **Fire and explosion:** Provide local exhaust ventilation where processes so require. All conductive parts of the system in contact with the product must be electrically grounded . Use anti- sparking tools
- **Precautions for safe handling:** Use personal protective equipment. Manipulating respecting the general safety and industrial hygiene
- **Hygiene measures**
 - **Suitable:** Clean clothes and shoes after use. General control methods used in industrial hygiene should minimize product exposure. Do not eat, drink or smoke when handling chemicals. Separate working clothes from ordinary clothes
 - **Unsuitable:** Do not eat , drink or smoke while handling the product

Conditions for safe storage

- **Conditions for safe storage:** Store in properly designed and approved tanks, or metal containers such as drums and cans tightly closed . In well-ventilated place at room temperature , atmospheric pressure , and away from heat , strong oxidizers and ignition sources
- **Conditions to avoid including incompatibilities:** Humid, discovered, and airless . Avoid strong oxidizing agents (liquid chlorine and concentrated oxygen)
- **Packaging materials**
 - **Suitable:** Carbon steel drums and / or plastic packaging
 - **Unsuitable:** Cardboard barrels with plastic bags.

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: Not available

Individual protection measures, such as personal protective equipment

- **Eye/face protection:** In operations where there may be projections or splashing , it is recommended the use of safety goggles or face shield
- **Skin protection:** In direct contact activities with the liquid, use waterproof gloves , aprons and boots PVA
- **Respiratory protection:** At low concentrations, wear respirator with chemical filter for organic vapors. At high concentrations, use breathing apparatus or set of air sent
- **Hands protection:** Impervious gloves (teflon , PVA , Viton)
- **Thermal hazards:** Not available

Other information: Not available

9. Physical and chemical properties

- **Appearance**
Physical state: Liquid; **Form:** Oily; **Color:** Colorless
- **Odour:** Distinctive
- **Odour threshold:** - 50 ~ -60 °C
- **pH:** Not applicable
- **Melting point/freezing point:** 150 °C
- **Initial boiling point:** 150 ~ 180 °C
- **Boiling range:** Not available
- **Flash point:** 49 °C Test: (closed cup)
- **Evaporation rate:** < 1: (butyl acetate=1)
- **Flammability (solid, gas):** Not available
- **Lower flammability or explosive limits:** Not available
- **Upper flammability or explosive limits:** Not available
- **Vapour pressure:** 0,25 ~ 0,67 kPa Test: 20°C
- **Vapour density:** 4,6 ~ 4,8 (air=1)
- **Relative density:** 0,855
- **Solubility(ies):** Aromatic hydrocarbons and alcohols. Solubility in water: <1%
- **Partition coefficient: n-octanol/water:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **Viscosity:** Not available



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10. Stability and reactivity

Chemical stability: Stable under normal conditions of storage and handling

Reactivity: Not available

Possibility of hazardous reactions: No, when the product is stored, handled and processed correctly

Conditions to avoid: Exposure to high temperatures for a long time and ignition sources

Incompatible materials: Not available

Hazardous decomposition products: Incomplete combustion emits irritating, corrosive and toxic gases

11. Toxicological information

Acute toxicity: Harmful if swallowed. Harmful if inhaled. May be harmful in contact with skin. ATEmix Oral = 816.99; ATEmix Dermal = 2156.86; ATEmix Inhalation = 10.78

Skin corrosion/irritation: It causes skin irritation

Serious eye damage/irritation: Causes serious eye irritation

Respiratory or skin sensitization: May cause allergic skin reactions

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

STOT-repeated exposure: The product is not classified according to criteria for this hazard GHS

Aspiration hazard: No disponible

Additional information: May cause abdominal pain and gastric irritation.

12. Ecological information

Toxicity: Toxic to aquatic life with long lasting effects CL 50 (fish, 96 hs): 1 ~ 10 mg/L

Persistence and degradability: Not available

Bio accumulative potential: Not available

Mobility in soil: Moderately volatile

Other adverse effects: In case of large spills the product may be dangerous to the environment due to the possible formation of a film on the surface of the water, reducing the levels of dissolved oxygen

13. Disposal considerations

Disposal methods

- **Product:** Treatment and disposal of the product must be technically evaluated case by case
- **Used package:** Discard in authorized facility not reuse packaging



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14. Transport information

National and international regulations:

Land Transport:

- **UN Number:** 1299
- **UN Proper Shipping Name:** TURPENTINE
- **Class or division:** 3 - Flammable liquids
- **Risk number:** 30
- **UN Packing group:** III
- **Technical name:** Turpentine
- **Environmental hazards:** Yes
- **Terrestrial (Road) Transport Regulation:** ONU - Orange Book

Sea Transport:

- **IMDG/GGVSea/ONU:** 1299
- **Transport hazard class(es):** 3
- **UN Packing group:** III
- **EmS:** F-E, S-E
- **Technical name:** turpentine
- **Marine Pollutant:** Yes
- **Waterway Transport Regulation:** Manual IMDG Code (International Maritime Dangerous Goods Code) of IMO (International Maritime Organization)

Aerial Transport:

- **ICAO/IATA/ONU:** 1299
- **Transport hazard class(es):** 3
- **UN Packing group:** III
- **Technical name:** turpentine
- **Environmental hazards:** Yes
- **Aerial Transport Regulation:** IATA Manual (International Air Transportation Association)

Additional Regulation: Not available

15. Regulatory information

Safety, health and environmental regulations specific for the product:

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

16. Other information



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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