1. Identification

**Product identifier**
SYLVAPINE™ A (Alpha Pinene)

**Other means of identification**
- SDS number: 8570
- Product Code: 20000000091

**Recommended use**
Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys).

**Recommended restrictions**
None known.

**Manufacturer/Importer/Supplier/Distributor information**
- **Company**: Arizona Chemical Company LLC
- **Address**: Building 100, 4600 Touchton Road East, Suite 1200
- **City/State**: Jacksonville, FL
- **Zip**: 32246
- **Country**: USA
- **Phone Number**: 904-928-8700
- **Alternate Phone Number**: 800-526-5294
- **Fax Number**: 904-928-8780
- **Emergency-US**: CHEMTREC 800-424-9300

2. Hazard(s) identification

**Physical hazards**
- Flammable liquids
- Category 3

**Health hazards**
- Skin corrosion/irritation
- Sensitization, skin
- Aspiration hazard
- Category 2
- Category 1

**OSHA defined hazards**
- Not classified.

**Label elements**

**Signal word**
Danger

**Hazard statement**
Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction.

**Precautionary statement**

**Prevention**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

**Response**
If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.
Storage
Store in a well-ventilated place. Keep cool. Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information
None.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terpenes and Terpenoids, turpentine-oil, a-pinene fraction</td>
<td></td>
<td>65996-96-5</td>
<td>100</td>
</tr>
</tbody>
</table>

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation
Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed
Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information
Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media
Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Wear suitable protective equipment. Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
Flammable liquid and vapor.
6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spills cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

**Precautions for safe handling**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

**Conditions for safe storage, including any incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original lightly closed container. Keep containers closed when not in use. Store in a well-ventilated place. Store at ambient temperature and atmospheric pressure. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>U.S. - OSHA Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terpenes and Terpenoids, turpentine-oil, a-pinene fraction (CAS 65996-96-5)</td>
<td>PEL</td>
<td>560 mg/m3</td>
<td>Turpentine, oil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
<td>Turpentine, oil</td>
</tr>
</tbody>
</table>

Material name: SYLVAPINE™ A (Alpha Pinene)  
Version #: 2.0  
Revision date: 12-14-2016  
SDS US  
Print date: 12-14-2016  
MSDS/SDS # 8570  
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<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terpenes and Terpenoids, turpentine-oil, α-pinene fraction (CAS 65996-96-5)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terpenes and Terpenoids, turpentine-oil, α-pinene fraction (CAS 65996-96-5)</td>
<td>REL</td>
<td>100 ppm</td>
<td>Turpentine, oil</td>
</tr>
</tbody>
</table>

**Biological limit values**
No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**
Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
Face shield is recommended. Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection**
Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other**
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection**
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Thermal hazards**
Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**
When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. Eye wash fountain and emergency showers are recommended.

### 9. Physical and chemical properties

**Appearance**  
Liquid.

**Physical state**  
Liquid.

**Form**  
Liquid.

**Color**  
Colorless

**Odor**  
Turpentine.

**Odor threshold**  
Not available.

**pH**  
Not available.

**Melting point/freezing point**  
-72.4 °F (-58 °C)

**Initial boiling point and boiling range**  
305.6 - 314.6 °F (152 - 157 °C)

**Flash point**  
84.2 °F (29.0 °C) Setaflash Closed Cup

**Evaporation rate**  
Not available.

**Flammability (solid, gas)**  
Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)**  
Not available.

**Flammability limit - upper (%)**  
Not available.
Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.
Vapor pressure Not available.
Vapor density 4.8 (air=1)
Relative density Not available.
Solubility(ies)
  Solubility (water) < 0.04 mg/l at 20°C
Auto-ignition temperature 491 °F (255 °C)
Decomposition temperature Not available.
Viscosity Not available.
Other information
  Chemical family Turpentine.
  Density 860.00 kg/m³ at 15.5°C
Explosive properties Not explosive.
Explosivity > 0.8 % Explosive limits in air, lower, % by volume
Flammability Flammable
Molecular weight 136.23 g/mol
Oxidizing properties Not oxidizing.
Percent volatile 99.9 % estimated
Pounds per gallon 7.2 at 15°C
Specific gravity 0.86 ASTM D802-82 at 15°C/15°C; (water=1)
Weighted solids 0 %

10. Stability and reactivity
Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions Hazardous polymerization does not occur.
Conditions to avoid Strong oxidizing agents. Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials Strong oxidizing agents.
Hazardous decomposition products Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

11. Toxicological information
Information on likely routes of exposure
Inhalation Prolonged inhalation may be harmful.
Skin contact Causes skin irritation. May cause an allergic skin reaction.
Eye contact Direct contact with eyes may cause temporary irritation.
Terpenes and Terpenoids, turpentine-oil, a-pinene fraction Irritation Corrosion - Eye, No eye irritation.; Data is for similar product.
  Result: Negative
  Species: New Zealand white rabbit
  Organ: Eye
  Observation Period: 72 hr
  Notes: OECD 405
Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Information on toxicological effects
Acute toxicity May be fatal if swallowed and enters airways. May cause an allergic skin reaction.
### Components

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
</table>

**Terpenes and Terpenoids, turpentine-oil, a-pinene fraction (CAS 65996-96-5)**

**Acute**

**Dermal**
- LD50: New Zealand white rabbit, > 2000 mg/kg Data is for similar product.

**Oral**
- LD50: Wistar rat, 3700 mg/kg Data is for similar product.

**Subacute**

**Inhalation**
- LOAEL: Fischer 344 rat, > 25 ppm, 14 weeks male; Data is for similar product.; OECD 413
- NOAEL: Fischer 344 rat, > 200 ppm, 14 weeks female; Data is for similar product.; OECD 413

**Oral**
- NOAEL: Mouse, > 50 ppm, 14 weeks OECD 413
- Sprague-Dawley rat, 250 mg/kg/day No toxicity to reproduction; Data is for similar product.; OECD 414

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**

- Causes skin irritation.

**Corrosivity**

- Irritation Corrosion - Skin, Skin irritation.; Data is for similar product.

**Serious eye damage/eye irritation**

- Direct contact with eyes may cause temporary irritation.

**Eye Contact**

- Irritation Corrosion - Eye, No eye irritation.; Data is for similar product.

**Respiratory or skin sensitization**

**Respiratory sensitization**

- Not available.

**Skin sensitization**

- May cause an allergic skin reaction.

**Skin sensitization**

- 29 % Local Lymph Node Assay - Lowest Concentration Producing Reaction, May cause sensitization by skin contact.; Data is for similar product.

**Germ cell mutagenicity**

- No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Mutagenicity**

- Genetic Toxicity - in Vivo, Data is for similar product.
Mutagenicity
Terpenes and Terpenoids, turpentine-oil, a-pinene fraction

Germ Cell Mutagenicity: Ames, No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.; Data is for similar product.
Result: Negative
Species: Salmonella typhimurium
Notes: OECD 471

Germ Cell Mutagenicity: Chromosome Abberation, This material is considered to be non-clastogenic to human lymphocytes in vitro.; Data is for similar product.
Result: Negative
Species: Human
Notes: OECD 473

In vitro gene mutation study in mammalian cells, Data is for similar product.
Result: Negative
Species: Mouse
Notes: OECD 476

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
May be fatal if swallowed and enters airways.

Chronic effects
Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity
Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terpenes and Terpenoids, turpentine-oil, a-pinene fraction (CAS 65996-96-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC10</td>
<td>Activated sewage sludge</td>
<td>38 mg/l, 3 hr Data is for similar product.; OECD 209</td>
</tr>
<tr>
<td>EC50</td>
<td>Activated sewage sludge</td>
<td>326 mg/l, 3 hr Data is for similar product.; OECD 209</td>
</tr>
<tr>
<td>Algae (Pseudokirchneriella subcapitata)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOEC</td>
<td>Algae (Pseudokirchneriella subcapitata)</td>
<td>0.494 mg/l, 48 hr Data is for similar product.; OECD 201</td>
</tr>
<tr>
<td>NOEC</td>
<td>Algae (Pseudokirchneriella subcapitata)</td>
<td>0.247 mg/l, 48 hr Data is for similar product.; OECD 201</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Danio rerio</td>
</tr>
<tr>
<td>NOEC</td>
<td>Carp (Cyprinus carpio)</td>
<td>96 hr &gt;&gt; Water solubility; Data is for similar product.; OECD 203</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Persistence and degradability
The product is biodegradable.
Biodegradability

| Percent degradation (Aerobic biodegradation) | Terpenes and Terpenoids, turpentine-oil, a-pinene fraction | 76 %, Data is for similar product. Result: Readily biodegradable |
| Species: Activated sewage sludge | Test Duration: 28 d |

Bioaccumulative potential

| Partition coefficient n-octanol / water (log Kow) | Terpenes and Terpenoids, turpentine-oil, a-pinene fraction | 4.49, at 25°C |

Mobility in soil

| No data available. |

Other adverse effects

| No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

13. Disposal considerations

Disposal instructions

| Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |

Local disposal regulations

| Dispose in accordance with all applicable regulations. |

Hazardous waste code

| D001: Waste Flammable material with a flash point <140 F |

Waste from residues / unused products

| Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |

Contaminated packaging

| Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport information

DOT

| UN number | UN2368 |
| UN proper shipping name | alpha-Pinene, MARINE POLLUTANT |
| Transport hazard class(es) | 3 |
| Class | 3 |
| Subsidiary risk | - |
| Label(s) | 3 |
| Packing group | III |
| Environmental hazards | Marine pollutant, Yes |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions | B1, IB3, T2, TP1 |
| Packaging exceptions | 150 |
| Packaging non bulk | 203 |
| Packaging bulk | 242 |

IATA

| UN number | UN2368 |
| UN proper shipping name | alpha-Pinene |
| Transport hazard class(es) | 3 |
| Class | 3 |
| Subsidiary risk | - |
| Packing group | III |
| Environmental hazards | Yes |
| ERG Code | 3L |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information | Allowed with restrictions. |

IMDG

| UN number | UN2368 |
| UN proper shipping name | alpha-PINENE, MARINE POLLUTANT |
| Transport hazard class(es) | 3 |
| Class | 3 |
Subsidiary risk -
Packing group III
Environmental hazards
Marine pollutant Yes
EmS F-E, S-E

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

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

IATA; IMDG

Marine pollutant

General information
IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.
SARA 304 Emergency release notification
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
- Not listed.

SARA 311/312 Hazardous chemical
- Yes

SARA 313 (TRI reporting)
- Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
- Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
- Not regulated.

Safe Drinking Water Act (SDWA)
- Not regulated.

NFPA ratings
- Health: 2
- Flammability: 3
- Instability: 0

16. Other information, including date of preparation or last revision

Issue date: 12-16-2014
Revision date: 12-14-2016
Version #: 2.0
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