Section 1: Product and Company Identification
Product Name: Acetone Thinner/Extender
Synonym: 2-propanone
Company Name
Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477
   Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
   Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day
CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification
2.1 Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

GHS Pictograms

GHS Classification
Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Specific organ toxicity-single exposure (Category 3), Central nervous system, H336

2.2 GHS label elements

Signal Word: DANGER

Hazard statements:
H225  Highly flammable liquid and vapor.
H319  Causes serious eye irritation.
H336  May cause drowsiness or dizziness.

Precautionary statements:
P210  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233  Keep container tightly closed.
P240  Ground/bond container and receiving equipment.
P241  Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242  Use only non-sparking tools.
P243  Take precautionary measures against static discharge.
P261  Avoid breathing dust/fume/gas/mist/vapors/spray.
P264  Wash skin thoroughly after handling.
P271  Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards
Hazards not otherwise classified (HNOC) or not covered by GHS
Repeated exposure may cause skin dryness or cracking.

HMIS® Hazard Rating: Health: 2; Flammability 3; Physical hazards: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)
NFPA Hazard Rating: Health: 2; Fire 3; Reactivity hazards: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Emergency overview
Appearance: Clear liquid

Potential health effects
Primary Routes of entry: Inhalation, ingestion, skin and eye contact.
Signs and Symptoms of Overexposure: ND
Eyes: Causes eye irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Chronic Exposure: Repeated exposure may cause skin dryness or cracking
Chemical Listed As Carcinogen Or Potential Carcinogen: None
See Toxicological Information (Section 11)

Potential environmental effects
See Ecological Information (Section 12)

Hazards not otherwise classified (HNOC) or not covered by GHS
Repeated exposure may cause skin dryness and cracking.

Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</th>
<th>%</th>
<th>OSHA PEL mg/m³</th>
<th>ACGIH TLV mg/m³</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (67-64-1) EC-No. 200-662-2 Index-No. 606-001-00-8</td>
<td>≤ 100</td>
<td>1800 ppm</td>
<td>500 ppm</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Registration number: 01-2119471330-49-xxxx</td>
<td></td>
<td>750 ppm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Section 4: First Aid Measures**

If accidental overexposure is suspected

Eye(s) Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Note to physician**

Treatment: Show this safety data sheet to the doctor in attendance.

Medical Conditions generally Aggravated by Exposure: ND

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**Section 5: Fire Fighting Measures**

Flash Point: -17.0 °C (1.4 °F) - closed cup

Flammable Limits: Lower explosion limit 2 %(V), Upper explosion limit 13 %(V)

Auto-ignition point: 465.0 °C (869.0 °F)

Fire Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire and Explosion Hazards: ND

Hazardous combustion products: Hazardous decomposition products formed under fire conditions: Carbon oxides.

DOT Class: Flammable.

---

**Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled:

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Waste Disposal Methods: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Dispose of waste according to Federal, State and Local Regulations.

---

**Section 7: Handling and Storage**

Precautions to be taken in Handling and Storage: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class: TRGS 510: Flammable liquids

Storage temperature: Room temperature.

Storage Pressure: NA

---

**Section 8: Exposure Controls / Personal Protection**

**Engineering Controls**

Ventilation required: Use a chemical fume hood.

**Control Parameters**
## Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500.000000 ppm</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
</tbody>
</table>

**Remarks**

- Central Nervous System impairment
- Hematologic effects
- Upper Respiratory Tract irritation
- Eye irritation
- Adopted values or notations enclosed are those for which changes are proposed in the NIC
- See Notice of Intended Changes (NIC)
- Substances for which there is a Biological Exposure Index or Indices (see BEI® section)
- Not classifiable as a human carcinogen

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
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<th>Basis</th>
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<td></td>
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<th>Value</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>750.000000 ppm</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
</tbody>
</table>

**Remarks**

- Central Nervous System impairment
- Hematologic effects
- Upper Respiratory Tract irritation
- Eye irritation
- Adopted values or notations enclosed are those for which changes are proposed in the NIC
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**Remarks**

- Central Nervous System impairment
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<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Parameters</th>
<th>Value</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000.000000 ppm</td>
<td>USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2,400.000000 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The value in mg/m³ is approximate.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Parameters</th>
<th>Value</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>250.000000 ppm</td>
<td>USA. NIOSH Recommended Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>590.000000 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Parameters</th>
<th>Value</th>
<th>Biological specimen</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Acetone</td>
<td>50.0000 mg/l</td>
<td>Urine</td>
<td>ACGIH - Biological Exposure Indices (BEI)</td>
</tr>
</tbody>
</table>

**Remarks**

- End of shift (As soon as possible after exposure ceases)
Workers
Skin contact
Long-term systemic effects
186 mg/kg BW/d

Consumers
Ingestion
Long-term systemic effects
62 mg/kg BW/d

Consumers
Skin contact
Long-term systemic effects
62 mg/kg BW/d

Workers
Inhalation
Acute systemic effects
2420 mg/m³

Workers
Inhalation
Long-term systemic effects
1210 mg/m³

Consumers
Inhalation
Long-term systemic effects
200 mg/m³

**Predicted no effect concentration (PNEC)**

<table>
<thead>
<tr>
<th>Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>33.3 mg/kg</td>
</tr>
<tr>
<td>Marine water</td>
<td>1.06 mg/l</td>
</tr>
<tr>
<td>Fresh water</td>
<td>10.6 mg/l</td>
</tr>
<tr>
<td>Marine sediment</td>
<td>3.04 mg/kg</td>
</tr>
<tr>
<td>Fresh water sediment</td>
<td>30.4 mg/kg</td>
</tr>
<tr>
<td>Onsite sewage treatment plant</td>
<td>100 mg/l</td>
</tr>
</tbody>
</table>

**Personal Protection Equipment**

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Protective gloves:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Skin protection:** Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Eye protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Additional clothing and/or equipment:** Eye wash station.

**Exposure Guidelines**
See Composition/Information on Ingredients (Section2)

---

**Section 9 Physical and Chemical Properties**

**Appearance and Physical State:** Clear liquid.

**Odor (threshold):** ND

**Specific Gravity (H₂O=1):** 0.791 g/cm³ at 25 °C (77 °F)

**Vapor Pressure (mm Hg):** 533.3 hPa (400.0 mmHg) at 39.5 °C (103.1 °F)

245.3 hPa (184.0 mmHg) at 20.0 °C (68.0 °F)

**Vapor Density (air=1):** ND

**Percent Volatile by volume:** ND

**Evaporation Rate (butyl acetate=1):** ND

**Boiling Point:** 56 °C (133 °F) at 1,013 hPa (760 mmHg) - lit.

**Melting point/range:** -94 °C (-137 °F) - lit.

**pH:** ND

**Solubility in Water:** completely miscible.

**Molecular Weight:** 58.08 g/mol

**Formula:** C₃H₆O
**Section 10: Stability and Reactivity**

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to Avoid (Incompatibility): Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride.

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Hazardous Decomposition Products: Carbon oxides

Hazardous Polymerization: Will not occur.

**Section 11: Toxicological Information**

Results of component toxicity test performed:

Acute toxicity

- LD50 Oral - rat - 5,800 mg/kg
- LC50 Inhalation - rat – 8 h – 50, 100 mg/m³

Remarks: Drowsiness, dizziness, unconsciousness

- LD50 Dermal – guinea pig – 7,426 mg/kg


Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit - Eye irritation - 24 h

Respiratory or skin sensitization: ND

RTECS: AL3150000

Human experience: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

- Kidney – irregularities
- Skin – dermatitis

This product does not contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

**Section 12: Ecological Information**

**Toxicity**

- Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h
- Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia magna (Water flea) – 8,800 mg/l - 48 h

**Persistence and degradability**

- Biodegradability: Result: 91% - Readily biodegradable (OECD Test Guideline 301B)

**Bioaccumulative potential:** Does not bioaccumulate.

**Motility in soil:** ND

**Chemical Fate Information:** ND

**Section 13 Disposal Considerations**

**RCRA 40 CFR 261 Classification:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

**Section 14: Transportation Information**

**US DOT Information:** Proper shipping name: Acetone

Hazard Class: 3

Packaging group: II

UN Number: UN1090

Reportable quantity: 5000 lbs.
IATA: Proper shipping name: Acetone
Hazard Class: 3
Packing group: II
UN Number: UN1090
Marine Pollutant: No
Canadian TDG: Acetone

Section 15: Regulatory Information

United States Federal Regulations
Flammable liquid, Target Organ Effect, Irritant
SARA: SARA 302 Components:
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components:
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards:
Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
RCRA: ND
TSCA: Listed
CERCLA: ND

State Regulations
California Proposition 65: None listed
Massachusetts Right To Know Components
Acetone   CAS-No. 67-64-1   Revision Date: 2007-03-01
Pennsylvania Right To Know Components
Acetone   CAS-No. 67-64-1   Revision Date: 2007-03-01
New Jersey Right To Know Components
Acetone   CAS-No. 67-64-1   Revision Date: 2007-03-01

International Regulations
Canada WHMIS: CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects.
Europe EINECS Numbers: 200-662-2

Section 16: Other Information
Label Information: Flammable, Irritant.
European Risk and Safety Phrases: R11- Highly flammable. R36- Irritating to eyes. S9- Keep container in a well-ventilated place. S16- Keep away from sources of ignition - No smoking. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
European symbols needed: ND
Canadian WHMIS Symbols: ND

Abbreviations used in this document
NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

Disclaimer
Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is
presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

MSDS Form 0013F1 V3