TED PELLA, INC.
Microscopy Products for Science and Industry

Safety Data Sheet
Product No. 16023 Acetone Thinner/Extender
Issue Date (05-22-13)
Review Date (11-21-14)

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
Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Hazard Identification

OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant.
Target Organs: Liver, Kidney.
GHS Classification:
Flammable liquids (Category 2).
Skin irritation (Category 3).
Eye irritation (Category 2A).
Specific target organ toxicity - single exposure (Category 3).
GHS Pictograms:


Flammable


Irritant

Signal Word: DANGER
Health Effects:
Hazard statement(s)
H225 Highly flammable liquid and vapor.
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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 (Section11)
Potential environmental effects
See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA regulated
Acetone (67-64-1)	≤ 100	1800 750 ppm	500 ppm	No	No	No

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

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:
Waste Disposal Methods: 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 temperature: Room temperature.
Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection
Engineering Controls
Ventilation required: Use a chemical fume hood.
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 (H_2O=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.
Freezing point / melting point: -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.
Hazardous Decomposition Products: Carbon oxides
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information
Results of component toxicity test performed: Acetone: Acute toxicity Oral LD50 LD50 Oral - rat - 5,800 mg/kg
Remarks: Behavioral: Altered sleep time (including change in righting reflex).
Behavioral: Tremor.
Inhalation LC50: LC50 Inhalation - rat - 8 h - 50,100 mg/m3
Dermal LD50: 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
Human experience: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information
Ecological Information: Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 13,500.00 mg/l - 48 h

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
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

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.
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

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
