MicroCare
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595 John Downey Drive, New Britain, Connecticut, 06051, USA

MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name: TidyPen™ Adhesive and Tape Remover; #MCC-P01; #MCC-PEN; #MCC-L80881
Chemical Family: A terpene hydrocarbon solvent.
Packaged By: MicroCare Corp., 595 John Downey Drive, New Britain, CT, 06051, USA CAGE/FSCM: OATV9
Emergency Telephone: CHEMTREC (800) 424-9300

2. Composition/Information on Ingredients

Chemical Name	Wt.%Range	TLV Units
Terpene Hydrocarbon	100.0	See Section 8 & 11
CAS # 5989-27-5		

All components of this material are listed on the TSCA inventory.

3. Hazard Identification

Emergency Overview: Flammable Liquid. Colorless liquid with a distinctive citrus odor. Low toxicity. Liquid will irritate eyes and skin under repeated or prolonged exposure. Although unlikely in small pen size package, product vapors can be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources distant from product handling point. Keep away from children.

Potential Health Effects

Eyes: Vapor contact: May cause irritation with discomfort, tearing or blurring of vision. Liquid contact: Will irritate eyes with possible corneal injury. Persons wearing contact lenses should wear chemical protective safety glasses when exposed to this product.
Skin: Avoid skin contact. Terpene hydrocarbons trapped under rings, wristbands or held in close contact with skin by clothing can cause temporary irritation and can cause mild to moderate local redness and swelling. Longer contact may cause severe redness and swelling, defatting of skin and dermatitis. Persons in direct contact with the liquid should wear protective clothing and gloves or wash frequently.
Ingestion: Low oral toxicity. Although not reported clinically, irritation of the nasal and pharyngeal mucus might follow direct exposure to Terpene Hydrocarbons.
Inhalation: Low toxicity. Although not reported clinically, prolonged exposure to citrus odor may cause temporary headache in some individuals. Although not reported clinically, vapors may cause lipoid pneumonitis if large amounts are aspirated into the lungs.
Medical Conditions Aggravated by Exposure: Preexisting disease of the heart, lungs, skin and eyes.

4. First Aid Measures

Eyes: Immediately flush with water. Remove any contact lenses and continue flushing for 15 minutes, lifting eyelids occasionally until no evidence of the chemical remains. If irritation develops or persists call a physician.
Skin: Wash promptly with soap and water. Remove and wash contaminated clothing and shoes before reuse.
Ingestion: If conscious, immediately give 2-4 glasses of water. Do not induce vomiting. Do not give stimulants. Never give anything by mouth to an unconscious person. Call a physician.
Note to physicians: Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400 mL of water and mix thoroughly. Administer 5 mL/kg, or 350 mL for average adult. There is no specific antidote to overexposure. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Immediate medical attention for acute overexposure is required.
Inhalation: Remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do not give Epinephrine. Call a physician.

5. Firefighting Measures

Flash Point: 117° F/47° C, Tag Closed Cup, ASTM-D-56.
Flammable Limits in Air: LEL/UEL: 0.7-6.0 (% by volume)
Autoignition Temperature: 458° F / 235° C
Extinguishing Media: Use dry chemical, "alcohol" foam, CO2; water may be ineffective, but water should be used to keep fire exposed containers cool. If a spill or leak has not ignited, use water spray to disperse vapors and protect persons attempting to stop leak. Water may be used to flush spills away from exposures and to dilute spills to nonflammable mixtures.
Special Firefighting Procedures: Evacuate personnel. Wear self contained breathing apparatus (SCBA) and full protective equipment. Keep containers cool. Containers build pressure under fire conditions causing violent bursting and dangerous propelling of container.

6. Accidental Release Measures

Spill or Leak: Evacuate area, absorb spilled liquid with commercial, nonflammable absorbent i.e. sand, vermiculite. Remove unprotected personnel. Protected personnel should remove ignition sources and shut off fire sources. Provide ventilation. Shovel (spark proof) absorbent material into drums and close. Do not flush to sewer.

7. Handling and Storage

Avoid breathing vapors or mist. Use only with adequate ventilation. Avoid repeated or prolonged contact with eyes, skin or clothing. Wash thoroughly after handling. Do not store in direct sunlight. Store in cool dry place, away from heat, sparks or flames which may generate toxic decomposition products. Vapors are heavy and may concentrate in low poorly ventilated areas. Rags soaked with Terpene Hydrocarbons are subject to possible spontaneous combustion if improperly stored or disposed. Dispose of waste rags only in approved fire suppression containers.

8. Exposure Controls/Personal Protection

Respiratory Protection: Use only with adequate ventilation. Keep container tightly closed. Use approved NIOSH self-contained or supplied air respirators for emergencies and in situations where air may be displaced by vapors.
Eye Protection: Use chemical protective safety glasses.
Protective Clothing: Where there is potential for skin contact, use appropriate impervious gloves, apron, pants and jacket.
Exposure Guidelines: Applicable Exposure Limits:
Terpene Hydrocarbons:
See Section 11.

NFPA, NPCA-HIMIS RATING:

Health	1
Flammability	2
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

9. Physical and Chemical Properties

Physical Form: Clear free flowing liquid.
Odor: Citrus
Boiling Point: 169-187° C / 340-372° F
pH: Not determined
Solubility in Water: Not soluble
Specific Gravity: .85 @ 25° C / 77° F
% Volatile by Weight: 100
Vapor Pressure: 1.6 mmHg @ 20° C / 70° F
Vapor Density (air=1): 4.6

10. Reactivity

Chemical Stability: Material is stable.
Hazardous Polymerization: Will not occur.
Incompatibilities: Avoid strong oxidizers, alkalides, and reactive metals.
Decomposition Products: Burning may produce carbon monoxide and/or carbon dioxide.

11. Toxicological Information

Ingredients of this material are listed either on the GRAS or as an approved substance for use either as an indirect food additive or for use in the manufacture of metal food containers as described in CFR, Title 21, Part 178 Section 3400 or 3910. None of the ingredients are listed in the Threshold Limit Values and Biological Exposure Indices compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).

Carcinogenicity: None of the components present in this material are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

12. Ecological Information

None available

13. Disposal Considerations

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations.

14. Transportation Information

Ground Transport: Consumer Commodity ORM-D
Air Transport: Terpene Hydrocarbons N.O.S. (d-Limonene), Class 3, Pkg. Group III, UN2319, Pkg. Instr. 309 Hazard Label: Flammable Liquid

15. Regulatory Information

Section 313 Supplier Information: This material contains the following toxic chemicals subject to the emergency reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40 CFR 372:

CAS#	Chemical Name	% by Weight
	none	

This information must be included in all MSDSs that are copied and distributed for this material.

Title III Hazard Communications Sections 311, 312

Acute	Yes
Chronic	Yes
Fire	Yes
Reactivity	No

16. Other Information

For additional information, go to www.microcare.com or contact Tech Support at MicroCare: Telephone (860) 827-0626 or email: techsupport@microcare.com