SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: CL-TAC Cleaner
PRODUCT USE: Ink Jet Cleaner
PRODUCT COLOR: Clear
NOT RECOMMENDED FOR: Consumer Use

Manufacturer/Supplier:
PANNIER CORPORATION
207 SANDUSKY STREET
PITTSBURGH, PA 15212-5823 U.S.A.
24 HR Emergency Telephone Number: INFOTRAC 1-800-535-5053

SECTION 2 - HAZARDS IDENTIFICATION

GHS Hazards
Flammable liquids Category 2
Eye irritation Category 2A
Specific target organ toxicity - single exposure Category 3 (Narcotic effects)

LABEL ELEMENTS
Hazard symbols

Signal word
Danger

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

Precautionary statements

Prevention
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.
P280 Wear protective gloves/ eye protection/ face protection.
P264 Wash skin thoroughly after handling.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.

Response
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
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.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

Storage
P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.
SAFETY DATA SHEET

CL-TAC Cleaner

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Components | CAS-No. | Weight %
--- | --- | ---
Acetone | 67-64-1 | 99.9

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 - FIRST AID MEASURES

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use..

Inhalation
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion
If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion
Vapours may form explosive mixture with air. Flash back possible over considerable distance. Use water spray to disperse the vapors. NFPA Class IB flammable liquid.

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Protective equipment and precautions for firefighters
In the event of fire, wear self-contained breathing apparatus.

Further information
Keep containers and surroundings cool with water spray. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up
Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

SECTION 7 - HANDLING AND STORAGE

Safe handling advice
Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

Storage/Transport pressure
Ambient

Load/Unload temperature
Ambient

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures
Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

Personal protective equipment

| Eyes | Chemical resistant goggles must be worn, Face-shield |
| Skin | Wear suitable protective clothing, gloves and eye/face protection. |
| Inhalation | Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection. |

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Components</th>
<th>Exposure limit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>OSHA PEL 1,000 ppm 2,400 mg/m3</td>
</tr>
<tr>
<td>ACGIH TLV (8-hour) 500 ppm</td>
<td></td>
</tr>
<tr>
<td>ACGIH STEL 750 ppm</td>
<td></td>
</tr>
</tbody>
</table>

PEL= Permissible Exposure Limits
TLV= Threshold Limit Value
TWA =Time Weighted Average (8 hr.)
STEL= Short Term Exposure Limit (15 min.)
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid;
Colour: Clear, colorless
Form: liquid
Odour: characteristic
Odour Threshold: no data available
Flash point: -17 °C, 1.4 °F;
Flammability: Upper explosion limit: 13.0 %(V)
Boiling point/boiling range: 56 °C, 133 °F;
Melting point/range: -95.35 °C, -139.6 °F;
Auto-ignition temperature: 465 °C, 869 °F;
Decomposition temperature: no data available
Flammability (solid, gas): no data available
Vapour pressure: 240 hPa @ 20 °C, 68 °F;
Vapour density: no data available
Density: 0.79 g/cm³ @ 20 °C, 68 °F;
Specific gravity: no data available
Water solubility: completely miscible
Viscosity: no data available
Viscosity, dynamic: 0.32 mPa.s @ 20 °C, 68 °F;
pH: no data available
Evaporation rate: no data available
Partition coefficient: n-octanol/water: no data available
Volatile organic compounds (VOC) content: 100 %

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Vapours may form explosive mixture with air.
Chemical stability: No decomposition if stored and applied as directed.
Conditions to avoid: Extremes of temperature and direct sunlight.
Hazardous decomposition products: None known.
Materials to avoid: Oxidizing agents
Hazardous polymerisation: May form explosive peroxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute dermal toxicity: LD50 rabbit: > 2,000 mg/kg (literature value)
Acute inhalation toxicity: LC50 rat (4 hours): > 20 mg/l (literature value)
Acute oral toxicity: LD50 rat: > 2,000 mg/kg (literature value)
Skin corrosion/irritation: Moderately irritating, (literature value)
Eye damage/irritation: (rabbit) irritating, (literature value)
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: Genotoxicity in vitro:
Type: Ames test
System: Salmonella typhimurium; with and without metabolic activation
Result: In vitro tests did not show mutagenic effects.
(Genotoxicity in vivo: no data available)
Assessment Mutagenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Reproductive toxicity: no data available
Assessment Reproductive toxicity: no data available
Teratogenicity:
STOT - single exposure
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure
no data available

Aspiration toxicity
no data available

Carcinogenicity
Assessment carcinogenicity:
Contains no ingredient listed as a carcinogen

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity to fish
LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours: > 100 mg/l; static test (literature value)

Toxicity to aquatic invertebrates
EC50 (Daphnia magna (Water flea)) 48 hours: > 100 mg/l; static test (literature value)

Toxicity to algae
EC50 (Pseudokirchneriella subcapitata (green algae)) 96 hours: > 100 mg/l; static test (literature value)

Chronic toxicity to aquatic invertebrates
NOEC (Daphnia magna (Water flea)) 28 d: > 100 mg/l; flow-through test (literature value)

Biodegradation
Readily biodegradable.

OECD Test Guideline 301B (28 d): > 60 % (literature value)

Bioaccumulation
no data available

Mobility in soil
no data available

Other adverse effects
no data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Code
F003 (RQ 5,000 Lbs)D001 - Ignitability (RQ 100 LB). Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification.

Disposal methods
Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Empty containers.
Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

SECTION 14 - TRANSPORT INFORMATION

DOT
UN 1090, Acetone, 3, II
When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.

IATA
UN 1090, Acetone, 3, II
When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.

IMDG
UN 1090, Acetone, 3, II
When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.

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

Remarks
no data available

SECTION 15 - REGULATORY INFORMATION

U.S. Federal Classifications:
OSHA Hazards (HCS 1994)
Flammable Liquid, eye irritant

TSCA Inventory Listing
Components
Cas-No.
Acetone
67-64-1

SARA 302 Status
Components
Cas-No.
Weight percent
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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification "Fire hazard", "Immediate (acute) health hazard"

SARA 313 Chemical Components

CAS-No.
Weight percent

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.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components
Reportable Quantity
Weight percent

Acetone
5,000 LB
99.9 %

INTERNATIONAL REGULATIONS

WHMIS Classification

Class B, Division 2: Flammable liquid.
Class D, Division 2, Subdivision B: Toxic material.

European Union

Classification according to Regulation (EU) 1272/2008.
Flammable liquids, Category 2
Eye irritation, Category 2
Specific target organ toxicity - single exposure, Category 3 (Narcotic effects)

Australia. Inventory of Chemical Substances (AICS) Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS) Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory Listed
Canada. Domestic Substances List (DSL) Inventory Listed
Canadian Non-Domestic Substance Listing (NDSL) Not listed

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing

Philippines. Inventory of Chemicals / Chemical Substances (PICCS) Listed
Korea. Existing Chemicals Inventory (KECI) Listed
China. Inventory of Existing Chemical Substances (IECSC) Listed
Mexico. National Inventory of Chemical Substances (INSQ) Listed
New Zealand. Inventory of Chemicals (NZIoC) Listed
Switzerland. Inventory of Notified New Substances (CHINV) Listed
Taiwan. National Existing Chemical Inventory (NECI) Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65

Components none

CAS-No.

SECTION 16 - OTHER INFORMATION

HAZARD RATINGS

<table>
<thead>
<tr>
<th>HMIS®</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard/ Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>NFPA</td>
<td>2</td>
<td>3</td>
<td>0</td>
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</tbody>
</table>

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