SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION
PRODUCT NAME: TPAD WS 010
PRODUCT COLOR: White
Manufacturer/Supplier:
PANNIER CORPORATION
207 SANDUSKY STREET
PITTSBURGH, PA 15212-5823 U.S.A.
24 Hr Emergency Telephone Number: Infotrac 1-800-535-5053

Further Information
Toxicological information center (Mainz/Germany)
You should contact a doctor or a toxicological information center if you suspect poisoning. The
toxicological information center provides free medical advice in the event of poisoning or a suspicion of
poisoning to everyone around the clock.

Important questions for EMERGENCY:
- Who: - age, weight, sex of the person concerned, telephone number for recall.
- What: - All you can say about the involved agents.
- How much: - Try to estimate the maximum possible intake.
- When: - Try to get the time elapsed since the incident time estimate.
- What else: - First observed symptoms? First Measures taken?

SECTION 2 - HAZARDS IDENTIFICATION
Classification of the chemical
Hazard categories:
- Flammable liquid: Flam. Liq. 2
- Serious eye damage/eye irritation: Eye Irrit. 2A
- Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
- Highly flammable liquid and vapor
- Causes serious eye irritation
- May cause drowsiness or dizziness

Label elements
Signal word: Danger
Pictograms: flame; exclamation mark

Hazard statements
- Highly flammable liquid and vapor
- Causes serious eye irritation
- May cause drowsiness or dizziness

Precautionary statements
- 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 dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use ... to extinguish.
Keep cool.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container to ....

**Hazards not otherwise classified**
In principle all chemicals are particularly dangerous. Therefore they are to be handled only by specially trained personnel with the necessary care. The disposal of this product requires the expertise resp. an annual instruction according to ChemVerbotsV.

### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**Mixtures**

**Chemical characterization**
Mixture of organic solvents, colorants, binders and additives.

**Hazardous components**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>butanone; ethyl methyl ketone</td>
<td>58.3610624%</td>
</tr>
<tr>
<td>9004-70-0</td>
<td>Cellulosenitrat &lt; 12,6 nitrogen</td>
<td>6.87144612%</td>
</tr>
<tr>
<td>67-63-0</td>
<td>propan-2-ol; isopropyl alcohol; isopropanol</td>
<td>4.57949148%</td>
</tr>
</tbody>
</table>

### SECTION 4 - FIRST AID MEASURES

**Description of first aid measures**

**General information**
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately. If victim is at risk of losing consciousness, position and transport on their side.

**After inhalation**
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention if problems persist.

**After contact with skin**
After contact with skin, take off immediately all contaminated clothing , and wash immediately with plenty of water and soap. Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation). Use protective skin cream before handling the product. In case of skin irritation, consult a physician.

**After contact with eyes**
If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**
Keep at rest. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Aspiration hazard. Do not give fatty oils and milk. Do not allow a neutralization agent to be drunk. Call a physician immediately.

**Most important symptoms and effects, both acute and delayed**

SECTION 2: Hazards identification & SECTION 11: Toxicological information

**Indication of any immediate medical attention and special treatment needed**
There are no data available on the mixture itself.

### SECTION 5 - FIRE FIGHTING MEASURES
Extinguishing media
Suitable extinguishing media
In case of fire, use sand, extinguishing powder or alcohol resistant foam. Water fog. Atomized water.
Unsuitable extinguishing media
High power water jet.
Specific hazards arising from the chemical
Carbon monoxide. CO Carbon dioxide (CO2). Vapors may form explosive mixtures with air. Re-ignition possible over considerable distance.
Special protective equipment and precautions for fire-fighters
Wear a self-contained breathing apparatus and chemical resistant suit.
Additional information
Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
Personal precautions, protective equipment and emergency procedures
Provide fresh air. Avoid contact with skin and eyes. Wear suitable protective clothing and eye/face protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!
Environmental precautions
Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches.
Methods and material for containment and cleaning up
Provide adequate ventilation. Absorb with liquid-binding material (e.g., sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated objects and areas thoroughly observing environmental regulations. Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.
Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7 - HANDLING AND STORAGE
Precautions for safe handling
Advice on safe handling
Provide adequate ventilation as well as local exhaustion at critical locations. Vapors/aerosols should be extracted by suction directly at point of origin. Effective exhaust ventilation system according to 2001/59/EG (Annex 7A). See information supplied by the manufacturer. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Open and handle container with care. Keep container tightly closed.
Advice on protection against fire and explosion
The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Vapors can travel considerable distances to a source of ignition where they can ignite flash back, or explode. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge .
Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Ensure adequate ventilation of the storage area. Keep only in the original container in a cool, well-ventilated place. Store small packages in a suitable, robust cabinet. Keep container tightly closed. Remove all sources of ignition. Recommended storage temperature: (+15°C) - (+25°C)
Advice on storage compatibility

**Further information on storage conditions**

Protect against direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. The product is chemically stable under recommended conditions of storage, use and temperature. In case of exceeding the storage time: Product/Packaging disposal. Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

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**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Exposure limits**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>f/cc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>2-Butanone (Methyl ethyl ketone)</td>
<td>200</td>
<td>590</td>
<td>TWA (8 h)</td>
<td>PEL</td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>2-Butanone</td>
<td>200</td>
<td>590</td>
<td>TWA (8 h)</td>
<td>REL</td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>2-Butanone</td>
<td>300</td>
<td>885</td>
<td>STEL (15 min)</td>
<td>REL</td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>2-Butanone</td>
<td>400</td>
<td>980</td>
<td>TWA (8 h)</td>
<td>PEL</td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>2-Butanone</td>
<td>400</td>
<td>980</td>
<td>TWA (8 h)</td>
<td>REL</td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>2-Butanone</td>
<td>500</td>
<td>1225</td>
<td>STEL (15 min)</td>
<td>REL</td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>2-Butanone</td>
<td></td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
<td></td>
</tr>
</tbody>
</table>

**Biological Exposure Indices (BEI-ACGIH)**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Determinant.</th>
<th>Value</th>
<th>Test material</th>
<th>Sampling time</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>2-PROPAOL</td>
<td>Acetone</td>
<td>40 mg/L</td>
<td>Urine</td>
<td>End of shift at end of workweek</td>
</tr>
<tr>
<td>78-93-3</td>
<td>METHYL ETHYL KETONE</td>
<td>Methyl ethyl ketone</td>
<td>2 mg/L</td>
<td>Urine</td>
<td>End of shift</td>
</tr>
</tbody>
</table>

**Additional advice on limit values**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Exposure controls**

**Protective and hygiene measures**

Keep away from food, drink and animal feeding stuffs. Remove contaminated, saturated clothing immediately. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes. Protect skin by using skin protective cream. Draw up and observe skin protection program. Wash hands before breaks and after work. When using do not eat, drink or smoke.

**Eye/face protection**

Tightly sealed safety glasses. DIN EN 166

**Hand protection**

Wear protective gloves. Recommended material: Butyl caoutchouc (butyl rubber) Thickness of the glove material >= 0,5 mm. DIN EN 374. NR (natural rubber, natural latex) limited resistance using a maximum of 10 minutes. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Extended inhalation at levels above the workplace limit value can cause irreversible damage to the lungs. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>White</td>
</tr>
<tr>
<td>Odor:</td>
<td>like: Solvent</td>
</tr>
</tbody>
</table>

**pH-Value (at 20°C): Changes**

not determined

**Test method**

DIN 19268
Initial boiling point and boiling range: 79 - 110°C  
Flash point: -4°C  

Explosive properties  
not Explosive. Vapors may form explosive mixtures with air.  

**Lower explosion limits:** 1,8 vol. %  
**Upper explosion limits:** 11,5 vol. %  
**Ignition temperature:** 514 °C  
**Vapor pressure: (at 20°C)** 105 hPa  
**Density (at 20°C):** 0,964 - 0,966 g/cm³  
**Solubility in other solvents**  
mixable with most organic solvent cleaners  
**Viscosity / dynamic: (at 20°C)** 6,5 - 7,5 mPa·s  

### SECTION 10 - STABILITY AND REACTIVITY

#### Chemical stability  
**Stability:** Stable  
The mixture is chemically stable under recommended conditions of storage, use and temperature.  

**Possibility of hazardous reactions**  
May form explosive peroxides. In use may form flammable/explosive vapor-air mixture. Vapors of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition.  

**Conditions to avoid**  
Protect from sunlight. Store at temperatures not exceeding 35°C/95°F.  

**Incompatible materials**  
Keep away from strong acids, leachates, heavy metal salts and reducing materials.  

**Hazardous decomposition products**  
Carbon monoxide (CO), Carbon dioxide (CO2). Peroxide

### SECTION 11 - TOXICOLOGICAL INFORMATION

#### Information on toxicological effects  
**ATE mix calculated**  
ATE (oral) 348,0 mg/kg; ATE (dermal) 1039,4 mg/kg  

**Acute toxicity**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>butanone; ethyl methyl ketone</td>
<td>oral</td>
<td>LD50</td>
<td>3300 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>5000 mg/kg</td>
<td>rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapor</td>
<td>LC50</td>
<td>10000 mg/l</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td>67-63-0</td>
<td>propan-2-ol; isopropyl alcohol; isopropanol</td>
<td>oral</td>
<td>LD50</td>
<td>4570 mg/kg</td>
<td>rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>13400 mg/kg</td>
<td>rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapor</td>
<td>LC50</td>
<td>30 mg/l</td>
<td>rat</td>
<td></td>
</tr>
</tbody>
</table>

**Carcinogenicity (NTP):** none  
**Carcinogenicity (IARC):** none  
**Carcinogenicity (OSHA):** none

**Further information**  
Prolonged/repetitive skin contact may cause skin defattening or dermatitis. Danger of cutaneous absorption. Inhalation causes narcotic effects / intoxication. Causes eye irritation, in case of eye contact. May cause damage to liver through prolonged or repeated exposure if inhaled. Ingestion causes nausea, weakness and central nervous system effects. Observe risk of aspiration if vomiting occurs.

### SECTION 12 - ECOLOGICAL INFORMATION

#### Persistence and degradability  
Product is partially biodegradable. Significant residues remain.  

**Bioaccumulative potential**  
No data available
Mobility in soil  
No data available  
Other adverse effects  
No data available  
Further information  
The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see chapter 3).

SECTION 13 - DISPOSAL CONSIDERATIONS  
Waste treatment methods  
Advice on disposal  
Dispose of waste according to applicable legislation. Do not empty into drains; dispose of this material and its container in a safe way. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14 - TRANSPORT INFORMATION  
US DOT 49 CFR 172.101  
UN/ID number: UN1263  
Proper shipping name: Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base or paint related material including paint thinning, drying, removing, or reducing compound  
Transport hazard class(es): 3  
Packing group: II  
Hazard label: 3  
Marine transport (IMDG)  
UN number: UN 1263  
UN proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)  
Transport hazard class(es): 3  
Packing group: II  
Hazard label: 3  
Limited quantity: 5 L  
EmS: F-E, S-E  
Other applicable information  
E2  
Air transport (ICAO)  
UN number: UN 1263  
UN proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)  
Transport hazard class(es): 3  
Packing group: II  
Hazard label: 3  
Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L  
Other applicable information  
E2  
Passenger-LQ: Y341
SECTION 15 - REGULATORY INFORMATION

U.S. Regulations
National regulatory information
SARA Section 304 CERCLA:
Methyl ethyl ketone (78-93-3): Reportable quantity = 5,000 (2270) lbs. (kg)
SARA Section 311/312 Hazards:
Methyl ethyl ketone (78-93-3): Fire hazard, Immediate (acute) health hazard
Cellulosenitrat < 12,6% Stickstoff (9004-70-0): Sudden release of pressure
Isopropyl alcohol (mfg-strong acid process) (67-63-0): Fire hazard, Immediate (acute) health hazard
SARA Section 313 Toxic release inventory:
Isopropyl alcohol (mfg-strong acid process) (67-63-0): De Minimis limit = 1.0%, Reportable threshold = Standard
Clean Air Act Section 112(b):
Methyl ethyl ketone (78-93-3)
SARA
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
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.
State Regulations
Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
Additional information
For use in industrial installations or professional treatment only.

SECTION 16 - OTHER INFORMATION

Hazardous Materials Information Label (HMIS)
Health: 1
Flammability: 3
Physical Hazard: 0
Personal Protection: B
NFPA Hazard Ratings
Health: 1
Flammability: 3
Reactivity: 0

Unique Hazard: not applicable

Abbreviations and acronyms
Drop-on-Demand Printer

Other data
The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations. The product should only be handled by persons over the age of 18, who were informed sufficiently about the dangerous nature or the product and about the necessary safety precautions.