



TPAD WS 010

Revision 5/5/2015

**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**

CAS No	Components	Quantity
78-93-3	butanone; ethyl methyl ketone	58.3610624%
9004-70-0	Cellulosenitrat < 12,6 nitrogen	6.87144612%
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	4.57949148%

### **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 drunk 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 (CO<sub>2</sub>). 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**

Do not store together with: Oxidizing agent. Technical Rule 510 note.

#### 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.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure limits

CAS No	Substance.	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
78-93-3	2-Butanone (Methyl ethyl ketone)	200	590		TWA (8 h)	REL
78-93-3	2-Butanone	200	590		TWA (8 h)	REL
		300	885		STEL (15 min)	REL
67-63-0	Isopropyl alcohol	400	980		TWA (8 h)	REL
		400	980		TWA (8 h)	REL
		500	1225		STEL (15 min)	REL
13463-67-7	Titanium dioxide Total dust		15		TWA (8 h)	REL

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

CAS No	Substance	Determinant.	Value	Test material	Sampling time
67-63-0	2-PROPANOL	Acetone	40 mg/L	Urine	End of shift at end of workweek
78-93-3	METHYL ETHYL KETONE	Methyl ethyl ketone	2 mg/L	Urine	End of shift

#### 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  $\geq$  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).

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state:

liquid

Color:

White

Odor:

like: Solvent

pH-Value (at 20°C): Changes in the physical state

not determined

Test method

DIN 19268

<b>Initial boiling point and boiling range:</b>	79 - 110°C	DIN 51751
<b>Flash point:</b>	-4°C	DIN 51755
<b>Explosive properties</b>	not Explosive. Vapors may form explosive mixtures with air.	
<b>Lower explosion limits:</b>	1,8 vol. %	DIN 51649
<b>Upper explosion limits:</b>	11,5 vol. %	DIN 51649
<b>Ignition temperature:</b>	514 °C	DIN 51794
<b>Vapor pressure: (at 20°C)</b>	105 hPa	DIN 51754
<b>Density (at 20°C):</b>	0,964 - 0,966 g/cm <sup>3</sup>	ISO 2811
<b>Solubility in other solvents</b>	mixable with most organic solvent cleaners	
<b>Viscosity / dynamic: (at 20°C)</b>	6,5 - 7,5 mPa·s	DIN 53019

## **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 (CO<sub>2</sub>). 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**

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

**Carcinogenicity (NTP):** none

**Carcinogenicity (IARC):** none

**Carcinogenicity (OSHA):** none

#### **Further information**

Prolonged/repetitive skin contact may cause skin defatting 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 &lt; 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 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 singularly 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.

