

TKD BL 010

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# **SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION**

PRODUCT NAME: TKD BL 010 PRODUCT COLOR: Blue Manufacturer/Supplier: PANNIER CORPORATION 207 SANDUSKY STREET PITTSBURGH, PA 15212-5823 U.S.A. 24 Hr Emergency Telephone Number: Infotrac 1-800-535-55053

### **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: Pictograms: Danger 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.

Ground/bond container and receiving equipment.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 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	80 - 90%
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	1 - 5%
9004-70-0	Cellulosenitrat < 12,6 nitrogen	2.301992%
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	1.534168%

# **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. Reignition 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.

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# 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

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end of workweek

End of shift

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urine

CAS No	Substance.		ppm	mg/m³	f/cc	Ca	tegory	Origin
78-93-3	2-Butanone (Methyl ethyl ketone)		200	590		TW	/A (8 h)	PEL
78-93-3	2-Butanone		200	590		TW	/A (8 h)	REL
			300	885		STEL	(15 min)	REL
67-63-0	Isopropyl alcohol		400	980		TW	/A (8 h)	PEL
			400	980		TW	/A (8 h)	REL
			500	1225		STEL	(15 min)	REL
107-98-2	Propylene glycol monomethyl ether		100	360		TW	/A (8 h)	REL
			150	540		STEL	(15 min)	REL
Biological Exposure Indices (BEI-ACGIH)								
CAS No	Substance	Determinar	nt.	Value	Tes	st	Sampli	ng time
					mate	rial	-	-
67-63-0	2-PROPANOL	Acetone		40 mg/L	Urir	e	End of	shift at

#### 78-93-3 METHYL ETHYL KETONE Additional advice on limit values

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

Methyl ethyl ketone

2 mg/L

#### 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).

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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Physical state:	liquid	
Color:	blue	
Odor:	like: Solvent	
		Test method
pH-Value (at 20°C):	not determined	DIN 19268
Changes in the physical state		
Initial boiling point and boiling range:	79 - 110°C	DIN 51751
Flash point:	-4°C	DIN 51755
Explosive properties		
Not Explosive. Vapors may form explosive mix	tures with air.	
Lower explosion limits:	1,8 vol.%	DIN 51649
Upper explosion limits:	11,5 vol.%	DIN 51649
Ignition temperature:	514°C	DIN 51794
Vapor pressure: (at 20°C)	105 hPa	DIN 51754
Density (at 20°C):	,824 - 0,827 g/cm³	ISO 2811
Solubility in other solvents		
mixable with most organic solvent cleaners		
Viscosity/dynamic: (at 20°C)	0,9 - 1,2 mPa⋅s	DIN 53019

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## SECTION 10 - STABILITY AND REACTIVITY

Chemical stability

Stability:

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.

Stable

#### 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

### Acute toxicity

CAS No	Components				
	Exposure routes	Method	Dose	Species	Source
78-93-3	butanone; ethyl methyl	ketone			
	oral	LD50	3300 mg/kg	rat	
	dermal	LD50	5000 mg/kg	rabbit	
	inhalate (4h) vapor	LC50	10000 mg/l	rat	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50	>5000 mg/kg	Rat	IUCLID
	dermal	LD50	11000 mg/kg	Rabbit	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50	4570 mg/kg	rat	
	dermal	LD50	13400 mg/kg	rabbit	
	inhalate (4h) vapor	LC50	30 mg/l	rat	

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. Will cause 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

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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	
	1014262
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:	I
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
en proper empping name.	filler and liquid lacquer base)
Transport hazard class(es):	3
Packing group:	а П
Hazard label:	3
	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:	Ĩ
Hazard label:	3
	о •
	3
	•
Limited quantity Passenger:	1 L
IATA-packing instructions - P	
IATA-max. quantity - Passeng	
IATA-packing instructions - C	
IATA-max. quantity - Cargo:	60 L
Other applicable information	
E2	
Passenger-LQ:	Y341
_	
<b>SECTION 15 - REGULAT</b>	ORY INFORMATION
U.S. Regulations	
National regulatory information	on
SARA Section 304 CERCLA:	
OF THE OCCUPTION OF CLICCLA.	

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 1-Methoxy-2-propanol; Monopropylenglycolmethylether (107-98-2): 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:

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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)

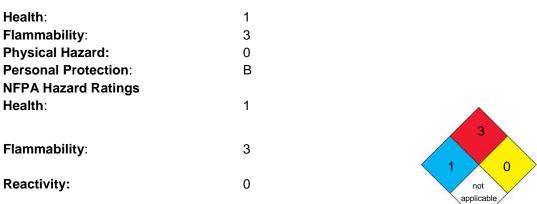
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

#### Additional information

For use in industrial installations or professional treatment only.

### SECTION 16 - OTHER INFORMATION

Hazardous Materials Information Label (HMIS)



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 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. (The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)