# **SAFETY DATA SHEET**

# Section 1 - Chemical Product and Company Information



P333+P313

### **PANNIER CORPORATION**

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Telephone: (412) 323-4900

Emergency Telephone: Infotrac (800) 535-5053

Product Code: 2600-371

Product Name: AAK-2600-371 Ink

Product Use: Ink

Not recommended for: Non-Professional Use

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	Section	n 2 - Hazards Identification	
GHS Ratings			
Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)	
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >=	
		1.5 < 2.3	
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days	
Skin sensitizer	1	Skin sensitizer	
Reproductive toxin	1B	Presumed, Based on experimental animals	
GHS Hazards			
H225	Highly flammabl	le liquid and vapor	
H316	Causes mild ski	n irritation.	
H317	May cause an a	llergic skin reaction.	
H319	Causes serious	eye irritation.	
H360	May damage fe	rtility or the unborn child.	
GHS Precautions			
P201	Obtain special ir	nstructions before use	
P202	Do not handle u	ntil all safety precautions have been read and understood	
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-p	proof electrical/ventilating/light/manufacturer/equipment	
P242	Use only non-sp	parking tools	
P243	Take precaution	ary measures against static discharge	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray		
P264	Wash contact ar	rea thoroughly after handling.	
P272	Contaminated w	ork clothing should not be allowed out of the workplace	
P280	Wear protective	gloves/protective clothing/eye protection/face protection	
P281	Use personal pr	otective equipment as required	
P321	Specific treatme	ent (see supplemental first aid instruction on this label)	
P363	Wash contamina	ated clothing before reuse	
P302+P352	IF ON SKIN: wa	sh with plenty of water.	
P303+P361+P353	IF ON SKIN (or	hair): Take off Immediately all contaminated clothing.Rinse SKIN	
	with water [or sh	nower].	
P305+P351+P338	IF IN EYES: Rin	se cautiously with water for several minutes. Remove contact	
	•	t and easy to do - continue rinsing.	
P308+P313	IF exposed or co	oncerned: Get medical advice/attention.	
P332+P313	If skin irritation o	occurs: Get medical advice/attention.	

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IF SKIN irritation or rash occurs: Get medical advice/attention.

P337+P313 IF eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use ... to extinguish.

P405 Store locked up

P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Signal Word: Danger





**Acute Toxicity** 

N/A

**Conditions Aggravated** 

N/A

**Chronic Effects** 

N/A

### Section 3 - Composition / Information on Ingredients

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Chemical Name	CAS number	Weight Concentration %	
Acetone	67-64-1	62.00%	
1-Methoxy-2-propyl acetate	108-65-6	8.00%	
Isopropyl alcohol	67-63-0	5.00%	
Cellulose Nitrate	9004-70-0	4.00%	
Methyl ethyl ketone	78-93-3	4.00%	
Titanium (IV) dioxide	13463-67-7	3.00%	
Cyclohexanone	108-94-1	3.00%	
1-Methyl-2-pyrrolidone	872-50-4	1.00%	
Dibutyl phthalate	84-74-2	0.80%	

# Section 4 - First Aid Measures

INHALATION - Move affected person to fresh air, rest in a half upright position, and loosen clothing. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Seek medical advice after significant exposure.

EYE CONTACT - Flush with large amounts of water for at least 15 minutes. Lift eyelids occasionally. Get prompt medical attention.

SKIN - Wash thoroughly with soap and water immediately. Remove all contaminated clothing immediately. Seek medical advice if irritation persists.

INGESTION - Seek medical advice. The decision to induce vomiting or not must be made by a physician after careful consideration of all materials ingested. Risk of aspiration into lungs.

# Section 5 - Fire Fighting Measures

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### Suitable Extinguishing Media

Carbon Dioxide---Dry Chemical---Foam---Water Fog Use water for cooling material stored in vicinity of fire.

#### **Explosion Hazards**

Vapors are heavier than air and may travel along the ground to an ignition source some distance from material handling point. Ignition sources include pilot lights, smoking, heaters, electric motors, sparks from electrical switches and static discharges.

CAUTION: Never use cutting torch on empty containers! Residual solvent vapor in empty container may explode. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain Medical Attention.

#### **Hazardous Combustion Products**

N/A

#### Recommended Fire Equipment

Use self-contained breathing apparatus with a full-face piece operated in a pressure-demand or other positive pressure mode. Wear protective clothing.

### Section 6 - Accidental Release Measures

<u>Non-emergency personnel:</u> Evacuate and isolate the area and prevent access. Remove ignition sources. No flares, smoking or flames in hazard area. Notify management. Avoid breathing vapor or mist and put on protective equipment. Control source of the leak. Ventilate.

<u>Emergency responders:</u> See section 8 for any specialized clothing recommendations. Also reference the information for non-emergency personnel

<u>Environmental precautions:</u> Prevent further leakage or spillage if possible. Do not allow the material to spread to drains, sewers, water supplies, or soil.

<u>Small Spill:</u> Stop leak if possible and move containers from the spill area. Water soluble: dilute with water and mop up. Water Insoluble: Cover spill area with a suitable absorbent inert material (Kitty Litter, Oil-Dri, etc.) and dispose of in an appropriate metal waste container. Dispose of material through a licensed waste disposal contractor.

<u>Large Spill:</u> Stop leak if possible and move containers from the spill area. Approach release from upwind. Contain spillage and with non-combustible absorbent material and place in appropriate disposal container according to local regulations. Dispose of material through a licensed waste disposal contractor. Report spill to appropriate governing agencies if applicable.

# Section 7 - Handling and Storage

### **Precautions for Safe Handling**

Keep away from food, drink and heat. Keep away from sources of ignition. No smoking. Do not breathe vapor. Avoid contact with skin and eyes. Never use pressure to empty. Take precautionary measures against static discharges.

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Storage temperature-

Minimum: do not freeze Maximum: 40°C (104°F)

Storage Period- See technical data sheet.

Section 8 - Exposure Controls / Personal Protection					
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits		
Acetone 67-64-1	1000 ppm TWA; 2400 mg/m3 TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA		
1-Methoxy-2-propyl acetate 108-65-6	N/A	N/A	Workplace Environmental Exposure Levels (WEEL) - TWA: 50 ppm		
Isopropyl alcohol 67-63-0	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL		
Cellulose Nitrate 9004-70-0	N/A	N/A	N/A		
Methyl ethyl ketone 78-93-3	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL		
Titanium (IV) dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	N/A		
Cyclohexanone 108-94-1	50 ppm TWA; 200 mg/m3 TWA	50 ppm STEL 20 ppm TWA	NIOSH: 25 ppm TWA; 100 mg/m3 TWA		
1-Methyl-2-pyrrolidone 872-50-4	Not Established	Not Established	Not Established		
Dibutyl phthalate 84-74-2	5 mg/m3 TWA	5 mg/m3 TWA	NIOSH: 5 mg/m3 TWA		

Engineering Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other controls to keep air containment concentration below current applicable OSHA permissible exposure limit or ACGIH TLV limit, and volatiles below lower explosive limit. Heavy solvent vapors should be removed from the lower levels of area, and all ignition sources (non-explosion proof equipment) should be eliminated if flammable mixtures will be encountered. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product. For baking finishes - vent vapors emitted on heating.

**Environmental Controls:** Emissions should comply with environmental protection legislation.

### **Individual Protection Measures:**

<u>Hygiene measures</u>- Wash hands, forearms, etc. after handling chemical products, before eating, smoking, and using the lavatory, and the end of the work period. Use appropriate techniques when removing potentially contaminated clothing and wash before reusing. Know the locations of eyewash and safety showers.

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Respiratory Protection- Provide adequate ventilation to keep exposure below permissible limits. If a risk assessment deems necessary, operator is to use a properly fitted, air purifying or supplied air respirator. Respirator selection must be based on known/ anticipated exposure levels, the hazards of the product, and the safe working limits of the respirator.

Skin and Body Protection-Wear chemical resistant gloves (nitrile) and paint suits when necessary, based on risk assessment. The most suitable glove must be chosen in consultation with the gloves supplier who can inform about the breakthrough time of the glove material. PPE for the body should be selected based on the risks of the task being performed and approved by a specialist. Appropriate footwear should also be approved.

<u>Eye/Face Protection</u>- Wear approved chemical safety goggles where exposure to vapor or contact with eyes is possible. Eye wash stations should also be made available. If inhalation hazard exists, a risk assessment will determine if a full face respirator may be required

# Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties:

Viscosity: Not determined

% Weight Solids 16.24

VOC Wt/Gal (wet) 6.14

Specific Gravity (SG) 0.879

Odor Threshold: Not determined

Boiling Point: 56°C

**LEL/UEL: 1% - 13%** 

Evaporation Rate (nBuAc=1): Not determined

Vapor Density: N/A

Partition coefficient: Not determined

pH: N/A

% Volume Solids 10.05

U.S. VOC Wt/Gal (wet) 1.59

Odor: N/A

Color: Yellow

Flash Point: 1°F,-17°C

Autoignition Temperature: 170°C

Vapor Pressure: N/A

Freezing Point: Not determined

# Section 10 - Stability and Reactivity

#### Stability and reactivity profile

This material is considered stable

Hazardous polymerization will not occur.

#### The following materials should be avoided in contact with the mixture

Strong acids

Strong bases

Reducing agents

Oxidizing agents

#### Hazardous decomposition products

Carbon oxides

Titanium/titanium oxides

# Section 11 - Toxicological Information

#### **Mixture Toxicity**

Inhalation Toxicity LC50: 60mg/L

**Component Toxicity** 

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LC<sub>50</sub> and LD<sub>50</sub> toxicity for this product are merely estimates and have yet to be determined. For individual component ecotoxicity, please refer to Section 11.

#### **Possible Routes of Entry**

Inhalation Skin Contact Eye Contact Ingestion

**Potential Target Organs** 

Eyes Kidneys Liver Lungs Central Nervous System Skin GI Tract

Respiratory System

#### **Effects of Overexposure**

Not Available

#### The following components are possible carcinogens

\*Materials labeled a carcinogen in dust form are supplied in solution, thus eliminating the hazard.

<u>CAS Number</u> <u>Description</u> <u>% Weight</u> <u>Carcinogen Rating</u>

13463-67-7 Titanium (IV) dioxide 3 Titanium (IV) dioxide: (\*dust)

NIOSH: potential occupational

carcinogen

IARC: Possible human carcinogen

OSHA: listed

## Section 12 - Ecological Information

#### **Mixture Ecotoxicity**

Toxicity- Do not release into environment. May cause long term adverse effects.

Persistence and degradability- N/A Bioaccumulative potential- N/A

Mobility in Soil- N/A Component Ecotoxicity

Acetone 96 Hr LC50 Oncorhynchus mykiss: 4.74 - 6.33 mL/L; 96 Hr LC50 Pimephales

promelas: 6210 - 8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300

ma/L

48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia

magna: 12600 - 12700 mg/L

1-Methoxy-2-propyl acetate 96 Hr LC50 Pimephales promelas: 161 mg/L [static]

48 Hr EC50 Daphnia magna: >500 mg/L

Isopropyl alcohol 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50

Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus:

>1400000 µg/L

48 Hr EC50 Daphnia magna: 13299 mg/L

96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50

Desmodesmus subspicatus: >1000 mg/L

Methyl ethyl ketone 96 Hr LC50 Pimephales promelas: 3130 - 3320 mg/L [flow-through]

48 Hr EC50 Daphnia magna: >520 mg/L; 48 Hr EC50 Daphnia magna: 5091

mg/L; 48 Hr EC50 Daphnia magna: 4025 - 6440 mg/L [Static]

Cyclohexanone 96 Hr LC50 Pimephales promelas: 481 - 578 mg/L [flow-through]; 96 Hr LC50

Pimephales promelas: 8.9 mg/L

1-Methyl-2-pyrrolidone 96 Hr LC50 Lepomis macrochirus: 832 mg/L [static]; 96 Hr LC50 Pimephales

promelas: 1072 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 1400 mg/L [static]

48 Hr EC50 Daphnia magna: 4897 mg/L

72 Hr EC50 Desmodesmus subspicatus: >500 mg/L

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Dibutyl phthalate

96 Hr LC50 Pimephales promelas: 0.71 - 1.2 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 0.31 - 5.45 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: >1.24 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1 .24 - 5.3 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 1.38 - 1.74 mg/L [flow-through];

96 Hr LC50 Lepomis macrochirus: 0.42 - 1.28 mg/L [static]

48 Hr EC50 Daphnia magna: 2.99 mg/L [Static]; 48 Hr EC50 Daphnia magna: 3.4

mg/L

72 Hr EC50 Desmodesmus subspicatus: 1.2 mg/L; 96 Hr EC50

Pseudokirchneriella subcapitata: 0.4 mg/L [static]

### Section 13 - Disposal Considerations

Dispose of in accordance with federal, state and local regulations. Controlled incineration is recommended for disposal of unused product. Prevent contamination of soil, drains and surface waters. Dispose of large containers to a licensed reconditioner. Dispose of small containers in compliance with local regulations.

Section 14 - Transport Information					
Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class	
DOT	PRINTING INK	UN1210	II	3	
IATA	PRINTING INK	UN1210	II	3	
	Pkg Instr: Y341/353/364				
IMDG	PRINTING INK	UN1210	II	3	
	EmS: F-E, S-D				

### Section 15 - Regulatory Information

The following chemicals are listed in California Title 8 CCR Sections as Hazardous

Substances 108-94-1 Cyclohexanone

78-93-3 Methyl ethyl ketone

67-63-0 Isopropyl alcohol

67-64-1 Acetone

The following chemicals are listed in California Title 8 CCR Sections 5200-5220 as Carcinogens.

- None

The following chemicals are listed in California Title 8 CCR Section 5203 as Carcinogens

- None

The following chemicals are listed in California Title 8 CCR Section 5209 as Carcinogens.

- None

The following chemicals are listed in the EU-Substances of Very High Concern (2008/67/ED) (SVHC): 872-50-4 1-Methyl-2-pyrrolidone

The following chemicals are listed in the EU-Restriction of the use of certain Hazardous Substances (2011/65/EU) (RoHS):

- None

The following chemicals are included in the Global Automotive Declarable Substance List (GADSL)

872-50-4 1-Methyl-2-pyrrolidone 9004-70-0 Cellulose Nitrate

The following substances are required for notification by the Japanese Enforcement Order of the Industrial Safety and Health Law (ISHL):

108-94-1 Cyclohexanone 13463-67-7 Titanium (IV) dioxide

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78-93-3 Methyl ethyl ketone 9004-70-0 Cellulose Nitrate 67-63-0 Isopropyl alcohol 108-65-6 1-Methoxy-2-propyl acetate 67-64-1 Acetone

The following chemicals are listed on the Massachusetts Right-to-Know Hazardous Substances List.

872-50-4 1-Methyl-2-pyrrolidone 108-94-1 Cyclohexanone 13463-67-7 Titanium (IV) dioxide 78-93-3 Methyl ethyl ketone 9004-70-0 Cellulose Nitrate 67-63-0 Isopropyl alcohol 67-64-1 Acetone

The following chemicals are listed on the New Jersey Right-to-Know Hazardous Substances List.

872-50-4 1-Methyl-2-pyrrolidone 108-94-1 Cyclohexanone 13463-67-7 Titanium (IV) dioxide 78-93-3 Methyl ethyl ketone 9004-70-0 Cellulose Nitrate 67-63-0 Isopropyl alcohol 67-64-1 Acetone

The following chemicals are listed on the Pennsylvania Right-to-Know Hazardous Substances List.

872-50-4 1-Methyl-2-pyrrolidone 108-94-1 Cyclohexanone 13463-67-7 Titanium (IV) dioxide 78-93-3 Methyl ethyl ketone 9004-70-0 Cellulose Nitrate 67-63-0 Isopropyl alcohol 67-64-1 Acetone

The following chemicals are listed by the State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

872-50-4 1-Methyl-2-pyrrolidone 1 % Carcinogen

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) requires certain facilities manufacturing, processing, or otherwise using listed toxic chemicals to report their environmental releases of such chemicals annually. The following chemicals are listed:

872-50-4 1-Methyl-2-pyrrolidone 1 %

The following chemicals are listed in EPCRA (SARA) Section 313: Persistent, Bioaccumulative, and Toxic Chemicals (PBT)

- None

The following chemicals are listed under EPCRA (SARA) Section 313: Toxic Release Inventory (TRI)

- None

Under Section 12(b) of the Toxic Substances Control Act (TSCA), exporters may need to notify the U.S. Environmental Protection Agency if they export or intend to export a product containing a chemical substance that is present on this list. The following substances are contained within this material:

- None

The following chemicals are listed as a Hazardous Air Pollutant under listed under the U.S. CAA (Clean Air Act)

- None

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<u>Country</u>	Regulation	All Components Listed
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Canadian Domestic Substances List (DSL)	Yes
Canada	Canadian Non-Domestic Substances List (NSDL)	No
China	Inventory of Existing Chemical Substances Produced or Imported in China (IECSC	C) No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Europe	REACH Registered or Pre-Registered Substances and Intermediates	Yes
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	No
Japan	Japan Inventory of Industrial Safety and Health Law Substances (ISHL)	No
Korea	Korean Existing Chemical Inventory (KECI)	No
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes
USA	Toxic Substances and Control Act (TSCA)	Yes

### EU Risk Phrases

Not Available

### Safety Phrase

Not Available

### Section 16 - Other Information

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

### **Hazardous Material Information System (HMIS)**





The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Date revised: 2021-01-06 Revision No:

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