# SAFETY DATA SHEET

### Section 1 - Chemical Product and Company Information



### PANNIER CORPORATION

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### www. pannier.com

Telephone: (412) 323-4900 email: sales@pannier.com

Emergency Telephone: Infotrac (800)535-5053

Product Name: AAK-140 Orange, Acetone Ink

Product Use: Ink

Not recommended for: Consumer Use

### Section 2 - Hazards Identification

### **GHS Ratings**

Flammable liquid 2 Flash point < 23°C and initial boiling point > 35°C (95°F) Eye irritant: Subcategory 2A, Reversible in 21 days 2A Serious eye damage/eye

irritation

Skin sensitization 1 Skin sensitizer

Carcinogenicity 1B Presumed Human Carcinogen, based on demonstrated

animal carcinogenicity

1B Presumed, Based on experimental animals Reproductive toxicity

#### **GHS Hazards**

| H225 | Highly flammable liquid and vapor    |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation.       |
| H350 | May cause cancer                     |

May cause cancer.

H360 May damage fertility or the unborn child.

#### **GHS Precautions**

| P201 | Obtain special instructions before use.                                  |
|------|--|
| P202 | Do not handle until 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-proof electrical/ventilating/light/manufacturer/equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash contact area thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves/protective clothing/eye protection/face protection

P281 Use personal protective equipment as required

P321 Specific treatment (see supplemental first aid instruction on this label)

P363 Wash contaminated clothing before reuse P302+P352 IF ON SKIN: wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN

with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

SDS for: 3347-1G Page 1 of 9 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

| Chemical Name              | CAS number | Weight Concentration % |
|----------------------------|------------|------------------------|
| Acetone                    | 67-64-1    | 60.00% - 70.00%        |
| 1-Methoxy-2-propyl acetate | 108-65-6   | 5.00% - 10.00%         |
| Isopropyl alcohol          | 67-63-0    | 4.00%                  |
| Cellulose Nitrate          | 9004-70-0  | 1.00% - 5.00%          |
| Methyl ethyl ketone        | 78-93-3    | 3.00%                  |
| Cyclohexanone              | 108-94-1   | 1.00% - 5.00%          |
| Titanium (IV) dioxide      | 13463-67-7 | 1.00% - 5.00%          |
| 1-Methyl-2-pyrrolidone     | 872-50-4   | 1.00%                  |
| Dibutyl phthalate          | 84-74-2    | 0.70%                  |
| 2-Butanone, oxime          | 96-29-7    | 0.10%                  |

# 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.

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# Section 5 - Fire Fighting Measures

### 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 | 3 - Fx | posure | Controls | / Persona    | al Protection |
|-----------|--------|--------|----------|--------------|---------------|
|           | ᄼᅟᆫᄼ   | posuic |          | / 1 CI 30116 |               |

| Chemical Name / CAS No.                | OSHA Exposure Limits            | ACGIH Exposure Limits       | Other Exposure Limits  |  |
|--|---------------------------------|-----------------------------|--|--|
| Acetone<br>67-64-1                     | 1000 ppm TWA; 2400 mg/m3<br>TWA | 500 ppm STEL<br>250 ppm TWA | NIOSH: 250 ppm TWA;<br>590 mg/m3 TWA                                     |  |
| 1-Methoxy-2-propyl acetate<br>108-65-6 | N/A                             | N/A                         | Workplace Environmental<br>Exposure Levels (WEEL)<br>- TWA: 50 ppm       |  |
| Isopropyl alcohol<br>67-63-0           | 400 ppm TWA; 980 mg/m3<br>TWA   | 400 ppm STEL<br>200 ppm TWA | NIOSH: 400 ppm TWA;<br>980 mg/m3 TWA<br>500 ppm STEL; 1225<br>mg/m3 STEL |  |
| Cellulose Nitrate<br>9004-70-0         | N/A                             | N/A                         | N/A  |  |
| Methyl ethyl ketone<br>78-93-3         | 200 ppm TWA; 590 mg/m3<br>TWA   | 300 ppm STEL<br>200 ppm TWA | NIOSH: 200 ppm TWA;<br>590 mg/m3 TWA<br>300 ppm STEL; 885<br>mg/m3 STEL  |  |
| Cyclohexanone<br>108-94-1              | 50 ppm TWA; 200 mg/m3<br>TWA    | 50 ppm STEL<br>20 ppm TWA   | NIOSH: 25 ppm TWA;<br>100 mg/m3 TWA                                      |  |
| Titanium (IV) dioxide<br>13463-67-7    | 15 mg/m3 TWA (total dust)       | 10 mg/m3 TWA                | N/A  |  |
| 1-Methyl-2-pyrrolidone<br>872-50-4     | Not Established                 | Not Established             | Not Established  |  |
| Dibutyl phthalate<br>84-74-2           | 5 mg/m3 TWA                     | 5 mg/m3 TWA                 | NIOSH: 5 mg/m3 TWA   |  |
| 2-Butanone, oxime<br>96-29-7           | Not Established                 | Not Established             | Not Established  |  |

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

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clothing and wash before reusing. Know the locations of eyewash and safety showers.

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 18.16

U.S. VOC Wt/Gal (wet) 1.27

Odor: Acetone

Color: Orange

Flash Point: 1°F,-17°C

Vapor Pressure: N/A

Freezing Point: Not determined

pH: N/A

VOC Wt/Gal (wet) 6.15

Specific Gravity (SG) 0.902

Odor Threshold: Not determined

**Boiling Point: 56°C** 

Evaporation Rate (nBuAc=1): Not determined

Vapor Density: N/A

### Section 10 - Stability and Reactivity

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

Oxidizing agents'

Strong acids

Strong bases

Reducing agents

### Hazardous decomposition products

Carbon oxides

Titanium/titanium oxides

### Section 11 - Toxicological Information

### **Mixture Toxicity**

Inhalation Toxicity LC50: 77mg/L

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 12.

### Possible Routes of Entry

Inhalation Skin Contact Eye Contact Ingestion

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#### **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>

96-29-7 2-Butanone, oxime 0.1% 2-Butanone, oxime: EU REACH:

Present (shall apply from March 1,

2022)

13463-67-7 Titanium (IV) dioxide 1% - 5% 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

mg/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 LC50 96 h Pimephales promelas 0.71 - 1.2 mg/L (IUCLID); LC50 96 h

Pimephales promelas 0.31 - 5.45 mg/L (EPA); LC50 96 h Oncorhynchus mykiss >1.24 mg/L (EPA); LC50 96 h Oncorhynchus mykiss 1.24 - 5.3 mg/L (EPA); LC50 96 h Lepomis macrochirus 1.38 - 1.74 mg/L (EPA); LC50 96 h Lepomis

macrochirus 0.42 - 1.28 mg/L (EPA)

EC50 48 h Daphnia magna 2.99 mg/L [Static] (EPA); EC50 48 h Daphnia magna

3.4 mg/L (IUCLID)

EC50 72 h Desmodesmus subspicatus 1.2 mg/L (IUCLID); EC50 96 h

Pseudokirchneriella subcapitata 0.4 mg/L (EPA)

2-Butanone, oxime LC50 96 h Pimephales promelas 777 - 914 mg/L (EPA); LC50 96 h Poecilia

reticulata 760 mg/L (IUCLID)

EC50 48 h Daphnia magna 750 mg/L (IUCLID)

EC50 72 h Desmodesmus subspicatus 83 mg/L (IUCLID)

### 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 | <b>Hazard Class</b> |  |
| 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 .

N/A

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

N/A

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

N/A

The following chemicals are listed in the EU-Substances of Very High Concern (2008/67/ED) (SVHC):

872-50-4 1-Methyl-2-pyrrolidone Reproductive Toxins

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

N/A

The following chemicals are included in the Global Automotive Declarable Substance List (GADSL) 9004-70-0 Cellulose Nitrate

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

13463-67-7 Titanium (IV) dioxide

108-94-1 Cyclohexanone

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.

13463-67-7 Titanium (IV) dioxide

108-94-1 Cyclohexanone

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.

13463-67-7 Titanium (IV) dioxide

108-94-1 Cyclohexanone

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.

13463-67-7 Titanium (IV) dioxide

108-94-1 Cyclohexanone

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:

N/A

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

N/A

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

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:

N/A

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

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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)              | Yes                   |
| Japan          | Japan Inventory of Industrial Safety and Health Law Substances (ISHL)          | No                    |
| Korea          | Korean Existing Chemical Inventory (KECI)                                      | Yes                   |
| 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

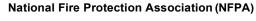
### Safety Phrase

Not Available

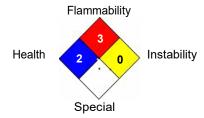
# Section 16 - Other Information

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.

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