

SAFETY DATA SHEET

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY

INFORMATION

PRODUCT NAME: AAK-140
PRODUCT USE: Inkjet Ink
PRODUCT COLOR: White

Recommended restrictions None known

Manufacturer/Supplier: PANNIER CORPORATION 207 SANDUSKY STREET

PITTSBURGH, PA 15212-5823 U.S.A.

412-323-4900/Email: SALES@PANNIER.COM

INFOTRAC 24 hr Emergency Telephone Number: 1-800-535-5053

SECTION 2 - HAZARDS IDENTIFICATION

Physical hazardsFlammable liquidsCategory 2Health hazardsSerious eye damage/eye irritationCategory 2A

Specific target organ toxicity, single exposure Category 3 narcotic effects

OSHA defined hazards Label elements



Not classified

Signal word Danger

Hazard statement Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness

or dizziness.

Precautionary statement

Prevention 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 mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye

protection/face protection.

Response 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 appropriate media to

extinguish.

Storage Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

 Chemical name
 CAS number
 %

 Acetone
 67-64-1
 60-70

 Titanium dioxide
 13463-67-71
 5-20

 Terpene phenolic
 259094-71-8
 5-10

 Propylene carbonate
 108-32-7
 1-5

SECTION 4 - FIRST AID MEASURES

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

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Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if

irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2) Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire. Specific hazards arising from the chemical Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. **General fire hazards** Highly flammable liquid and vapor

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground

<u>SECTION 7 - HANDLING AND STORAGE</u>

Precautions for safe handling Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed

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container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS)..

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	<u>Form</u>
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
,		1000 ppm	
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. ACGIH Threshold Limit Values		G	
Components	Type	<u>Value</u>	
Acetone (CAS 67-64-1)	STEL	750 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	500 ppm	
	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Chemical	Hazards	G	
Components	Type	<u>Value</u>	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
,		250 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection.

Appearance

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier **Other** Wear suitable protective clothing.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical stateLiquid.FormLiquid.ColorWhiteOdorCharacteristic, ketone.Odor thresholdNot available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range 131 °F (55 °C)

Flash point -2.2 °F (-19.0 °C)

Evaporation rate Not available

Flammability (solid, gas) Not applicable

Upper/lower flammability or explosive limits

Explosive limit - lower (%)
Explosive limit - upper (%)
Vapor pressure

2.6 % v/v
13 % v/v
233 hPa

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Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water)Partially soluble.Partition coefficient (n-octanol/water)Not available.Auto-ignition temperature806 °F (430 °C)Decomposition temperatureNot available.ViscosityNot available.

Other information

Density0.88 g/cm3.Explosive propertiesNot explosiveOxidizing propertiesNot oxidizing.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions. No dangerous reaction known under conditions of normal use.

Possibility of hazardous reactions Avoid heat, sparks, open flames and other ignition sources.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Acids.

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact Prolonged or repeated contact may dry skin and cause irritation.

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity Narcotic effects.

Species	Test Results
Rabbit	20 ml/kg
Rat	50 mg/l, 8 Hours
Rat	5800 mg/kg
Rabbit	> 2000 mg/kg
Rat	> 5 mg/l
Rat	> 5000 mg/kg
	Rabbit Rat Rat Rabbit Rabbit

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

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Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Inhalation of titanium dioxide dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

single exposure May cause drowsiness and dizziness.

Specific target organ toxicity

repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Acetone (CAS 67-64-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1)

-0.24

Mobility in soil The product is partly miscible with water and may spread in the aquatic environment.

Other adverse effects None known.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT

UN number UN1210
UN proper shipping name Printing ink, flammable

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 149, IB2, T4, TP1, TP8

Packaging exceptions 150
Packaging non bulk 173
Packaging bulk 242

IATA

UN number UN1210

UN proper shipping name Printing ink flammable

Transport hazard class(es)

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Class 3
Subsidiary risk Packing group ||

Environmental hazards

ERG Code 3L

Special precautions for userRead safety instructions, SDS and emergency procedures before handling

IMDG

UN number UN1210

UN proper shipping name PRINTING INK flammable

Transport hazard class(es)

Class

Subsidiary risk 3
Packing group II

Environmental hazards

Marine pollutant No. EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

SECTION 15 - REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTEI

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated. Not regulated.

Safe Drinking Water Act (SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Titanium dioxide (CAS 13463-67-7)

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US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Titanium dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Titanium dioxide (CAS 13463-67-7)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No

Country(s) or region Inventory name On inventory (yes/no)*

Canada Non-Domestic Substances List (NDSL)

Yes

China Inventory of Existing Chemical Substances in China (IECSC) Yes Europe European Inventory of Existing Commercial Chemical Substances (EINECS) No European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan No Existing Chemicals List (ECL) No New Zealand Inventory Korea No New Zealand Inventory New Zealand No Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS) No

United States &

Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

SECTION 16 - OTHER INFORMATION

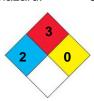
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HMIS® ratings

Health: 2 Flammability: 3 Physical hazard: 0

NFPA ratings



Pannier Corp. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).