SDS# 100 White Ink



SAFETY DATA SHEET

Revision Date: 9/6/2018

1. PRODUCT IDENTIFICATION

PRODUCT NAME: 100 White Ink

PRODUCT COLOR: White

RECOMMENDED USE: Coding & Marking

Manufacturer/Supplier: PANNIER CORPORATION 207 Sandusky Street Pittsburgh, PA 15212-5823 USA sales@pannier.com

412-323-4900

Emergency Telephone Number: 1-800-535-5053 (North America)

TRANSPORTATION: INFOTRAC:

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Classification:

Flammable liquids	Category 2
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

GHS label elements, including precautionary statements



Pictogram

Signal Word Danger

Hazard Statements

SAFETY DATA SHEET

Revision Date: 9/6/2018 SDS# 100 White Ink

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 Keep container tightly closed P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge P261 Avoid breathing dust/fume/gas/mist/vapors/spray

Wash skin thoroughly after handling P264

P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+P312 IF SWALLOWED: Call a POSION CENTER or doctor/physician if you feel unwell

IF ON SKIN: Wash with plenty of soap and water P302+P352

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. P303+P361+P351

Rinse continuously with water for several minutes.

IF INHALED: Remove victim to fresh air and keep at rest in a position P304+P340

comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse continuously 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. Immediately call a POISON CENTER or doctor/physician P310

P330 Rinse mouth

P332+P313 If skin irritation occurs: Get medical advice/attention

P370+P378 In case of fire: Use Water spray, CO2, dry chemical, or alcohol resistant foam to

P362+P364 Take off contaminated clothing and wash it before reuse

Store in a well-ventilated place. Keep cool P403+P235

Dispose of contents/container to an approved waste disposal plant P501

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
n-Butyl Alcohol	71-36-3	30-40
1-Methoxy-2-propanol	107-98-2	20-30
Ethyl Alcohol	64-17-5	5-15
2-Propanol	67-63-0	5-15
Ethyl Acetate	141-78-6	5-15
Propyl Acetate	109-60-4	0-5

4. FIRST AID MEASURES

SAFETY DATA SHEET Revision Date: 9/6/2018

First Aid Measures

SDS# 100 White Ink

Ingestion: If swallowed, do NOT induce vomiting. Never give anything by mouth

to an unconscious person. Rinse mouth with water. Consult a

physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and

consult a physician.

Skin: Remove contaminated clothing. Wash off with soap and plenty of water.

Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

Most important symptoms and effects

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIREFIGHTING MEASURES

Suitable extinguishing media:

Water fog, Multipurpose foam, Dry chemical, CO₂

Unsuitable extinguishing media:

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards in case of fire:

Fight as volatile liquid fire Flashback fires may occur

Vapors are dense and may travel to remote ignition source

Hazardous combustion products:

Carbon oxides, Nitrogen oxides, organic combustion products which may be toxic and/or irritating

Protective equipment and precautions for fire fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear chemical goggles, gloves, boots and protective clothing. Wear respirator if necessary. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition and heat.

SDS# 100 White Ink Revision Date: 9/6/2018

Environmental precaution:

Prevent additional discharge of material. Prevent material from entering sewers or water courses.

Methods and materials for containment and cleaning up:

Absorb small spills with sand, filter-aid, vermiculite or other inert absorbent material, them place in a chemical waste container. For large spills, contain with sand or earth dikes. Dispose of waste in accordance with applicable government regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink of smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Unscrew all caps slowly. Do not unscrew entirely until all pressure has been completely released. Keep away from heat/sparks/open flames/hot surfaces. Emptied containers may retain residues. Precautions apply to emptied containers.

Conditions for safe storage, including incompatibilities:

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep storage temperature between 4-32°C (40-90°F). Incompatible with strong oxidizing agents, strong acids, strong bases, alkali metals and halogens.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
n-Butyl Alcohol 71-36-3	TWA: 20 ppm	A: 20 ppm TWA: 100 ppm IDLH: 1 TWA: 300 mg/m ³ Ceiling: Ceiling: S	
1-Methoxy-2-propanol 107-98-2	98-2 STEL: 150 ppm TWA: 360 mg/s STEL: 150 pp STEL: 540 mg/s STEL: 540 mg/s STEL: 540 mg/s STEL: 540 mg/s TWA: 1000 ppm TWA: 1900 mg/s STEL: 400 ppm TWA: 400 ppm STEL: 540 mg/s STEL: 540 ppm STEL: 5500 pp STEL: 1225 mg, STEL: 1225 mg, STEL: 400 ppm TWA: 400 ppm		TWA: 100 ppm TWA: 360 mg/m³ STEL: 150 ppm STEL: 540 mg/m³
Ethyl Alcohol 64-17-5			IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
2-Propanol 67-63-0			IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³
Ethyl Acetate 141-78-6			IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m ³
Propyl Acetate 109-60-4	TWA: 200 ppm STEL: 250 ppm	TWA: 200 ppm TWA: 840 mg/m³ STEL: 250 ppm STEL: 1050 mg/m³	IDLH: 1700 ppm TWA: 200 ppm TWA: 840 mg/m³ STEL: 250 ppm STEL: 1050 mg/m³

Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. Local exhaust and mechanical ventilations are recommended to be used as engineering controls.

SDS# 100 White Ink Revision Date: 9/6/2018

Individual protection measures, such as personal protective equipment:

Eye/Face protection: Safety glasses with side shields or chemical goggles must be worn.

Skin/Body protection: Wear protective gloves. Wear suitable protective clothing and footwear

appropriate for the risk of exposure.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA

approved respiratory protection should be worn. Respiratory protection must be

provided in accordance with current local regulations.

General hygiene: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<u>Property</u> <u>Values</u> <u>Remarks-Methods</u>

Physical state: Liquid
Odor: Moderate
Odor threshold: Not detern

Odor threshold:

pH:

Not determined

Not determined

Melting point/freezing point:

Not determined

Not determined

Not determined

Not determined

Flash point: 7.8°C / 46°F Tag Closed Cup Evaporation Rate: <1 butyl acetate = 1

Flammability (solid, gas):
Upper/lower flammability limits:
Not determined
Vapor pressure:
Not determined

 Vapor density:
 >1
 air = 1

 Specific gravity:
 0.9 - 0.98
 water = 1

Water solubility:

Solubility in other solvents:

Partially soluble

Not determined

Not determined

Auto-ignition Temperature:

Decomposition temperature:

Viscosity:

VOC Content (%):

Partially soluble

Not determined

Not determined

8-20 cps

70 %

VOC Content: 5.6 - 6.2 lbs./gal

10. STABILITY AND REACTIVITY

Reactivity:

Not reactive under normal conditions.

Chemical Stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

None under normal processing.

Conditions to avoid:

Keep out of reach of children. Keep away from heat, sparks and open flame. Keep away from contact with incompatible materials.

Incompatible materials:

Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

SDS# 100 White Ink

Revision Date: 9/6/2018

Hazardous decomposition products:

Carbon oxides, nitrogen oxides, thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact: Causes serious eye damage

Skin contact: Causes skin irritation

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.

Ingestion: Harmful if swallowed

Component Information:

Chemical Name and CAS# Oral LD50		Dermal LD50	Inhalation LC50		
n-Butyl Alcohol 71-36-3	,		>17.9 mg/l (Rat) 4 h		
1-Methoxy-2-propanol = 4,016 mg/kg (Rat) 107-98-2		>2,000 mg/kg (Rabbit)	= 25.8 mg/l (Rat) 5h		
Ethyl Alcohol = 7,060 mg/kg (Rat) 64-17-5		No Data	= 20,000 mg/ m³ (Rat) 10 h		
2-Propanol = 5,045 mg/kg (Rat) 67-63-0		= 12,800 mg/kg (Rabbit)	= 16,000 mg/m³ (Rat) 8 h		
Ethyl Acetate = 4,934 mg/kg (Rat) 141-78-6		>20,000 mg/kg (Rabbit)	= 22.5 mg/L (Rat) 6h		
Propyl Acetate 109-60-4	= 9,370 mg/kg (Rat)	> 17,740 mg/kg	No Data		

Information on physical, chemical and toxicological effects:

Symptoms Please see section 4 of this SDS for symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Carcinogenicity:

• • • • • • • • • • • • • • • • • • • •	•			
Chemical Name	ACGIH	IARC	NTP	OSHA
None				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 – Confirmed human carcinogen

A2 – Suspected human carcinogen

A3 - Confirmed animal carcinogen with unknown relevance to humans

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B – Limited evidence of carcinogenicity

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity:

Not determined

12. ECOLOGICAL INFORMATION

SAFETY DATA SHEET

Revision Date: 9/6/2018

Ecotoxicity:

Component Information

Chemical Name and CAS#	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
n-Butyl Alcohol 71-36-3	No data LC50 - Pimephales promela - 1,376 mg/L - 96 h		No data	EC50 - Daphnia magna - 1,328 mg/L - 48 h
1-Methoxy-2-propanol 107-98-2		LC50 - Pimephales promelas - 20,800 mg/L - 96h		EC50 - Daphnia magna - 23,300 mg/L - 48h
Ethyl Alcohol 64-17-5	EC50 - Chlorella vulgaris - >100 mg/L - 72h	LC50 - Pimephales promelas - 15,300 mg/L - 96h		EC50 - Daphnia magna - > 100 mg/L - 24h
2-Propanol 67-63-0	EC50 - Desmodesmus subspicatus - 2000 mg/L - 72h	LC50 - Pimephales promelas - 9,640 mg/L - 96h		EC50 - Daphnia magna - 5,102 mg/L - 96h
Ethyl Acetate 141-78-6	EC50 - Algae - 4,300 mg/L - 24h	LC50 - Pimephales promelas - 230 mg/L - 96h		EC50 - Daphnia magna - 165 mg/L - 48h
Propyl Acetate 109-60-4	EC50 - Pseudokirchneriella subcapitata - >100 mg/L - 72h	LC50 - Pimephales promelas - > 10-100 mg/L - 96h		EC50 - Daphnia magna - 318 mg/L - 24h

Persistence/Degradability:

Not determined

Bioaccumulation:

Not determined

Mobility:

Not determined

Other Adverse Effects:

No data available

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local

laws and regulations.

Contaminated Packaging: Dispose of as unused product in accordance with applicable regional, national

and local laws and regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT

UN number 1210

Proper shipping name PRINTING INK

Hazard class 3
Packing group II
ERG# 129

IATA

UN number 1210

Proper shipping name PRINTING INK

Hazard class 3 Packing group SDS# 100 White Ink

Revision Date: 9/6/2018

IMDG

UN number 1210

Proper shipping name PRINTING INK

Hazard class 3
Packing group II
Marine pollutant No

SECTION 15 – REGULATORY INFORMATION

TSCA STATUS: All Components listed

OTHER REGULATORY:

Ingredient(s)	SARA 302	SARA 311/312	SARA 313	<u>RECRA</u>	<u>CERCLA</u>
n-Butyl Alcohol	No	F, A	Yes	U031	No
1-Methoxy-2-propanol	No	F, A	No	No	No
Ethyl Alcohol	No	F, A	No	No	No
2-Propanol	No	F, A, C	Yes	No	No
Ethyl Acetate	No	F, A	No	U112	Yes
Propyl Acetate	No	F, A	No	No	No

SARA 311/312 Codes: R = Reactive Hazard

P = Pressure Hazard F = Fire Hazard A = Immediate/Acute C = Delayed/Chronic

California Prop. 65 Components: Chemicals known to the state of California to cause birth defects or other reproductive harm:

This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16 – OTHER INFORMATION

HMIS:

Health: 3
Chronic Health Hazard *
Flammability: 3
Reactivity: 0

Revision Date: 06-Sept-2018 **Replaces:** 18-Nov-2015

Revision Note: Review and update. Changes to Sections 2, 4, 11, 12, 15, 16

Prepared by: Don Wright

SAFETY DATA SHEET

SDS# 100 White Ink

Revision Date: 9/6/2018

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material described in this MSDS. Information contained herein is given in good faith and believed to be true and accurate, but all statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material, or results to be obtained from the use thereof. All of the listed ingredients in this product that are considered to present a health hazard as defined in Appendix A of the OSHA "Hazard Communication" standard (29CFR 1910.1200) as listed in Section II. All of the information given, including ingredient identification, CAS Number, and quantity, is proprietary information, which has been provided in order to meet the objective of the "Hazard Communication" standard. Data provided here are typical and not intended for use as product specifications. This formulation information is confidential, and only to be disclosed in accordance with Federal and State safety and health regulations. Permission to disclose any ingredient information for any other purpose is neither given nor implied.