

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION****PRODUCT NAME:** GRADE 570 INK**PRODUCT USE:** Flexographic Ink**CHEMICAL FAMILY:** Mixture**CAS NO.:** NOT AVAILABLE (MIXTURE)**DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME:** NON-RESTRICTED**INK DOT HAZARD CLASS:** Not regulated**UN/NA ID NO.:** NONE**HMIS CODES:** 2H, 2F, 0R

Not recommended for: Consumer Use

Manufacturer/Supplier:

PANNIER CORPORATION

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412-323-4900

SALES@PANNIER.COM

24 Hr Emergency Telephone Number: INFOTRAC 1-800-535-5053**SECTION 2 - HAZARDS IDENTIFICATION****Classification of the substance or mixture****OSHA Regulatory Status** This Product is Hazardous under the OSHA Hazard Communication Standard.**Physical hazards** Flammable. Liquid 4 - H227**Health hazards** Skin Irritant t. 2 - H315 Eye Irritant. 2A - H319**Environmental hazards**

Pictogram



Label elements Not Classified

Warning

H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Signal word

Comments Full list of Hazard Statements is found in Sec. 16 Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

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

Hazard statements

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

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

P501 Dispose of contents/container in accordance with national regulations.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS WEIGHT		PERCENT
		OSHA PEL	ACGIH TLV	
Diethylene glycol monobutyl ether	112-34-5	N/est	N/est	15-30
Ethylene glycol monobutyl ether	111-76-2	N/est	25 PPM	20-50

Glycol Ether DB

Classification

Skin Irritant. 2 - H315
 Eye Irritant. 2B - H320
 STOT SE 3 - H335, H336

Glycol Ether EB

Classification

Flam. Liq. 4 - H227
 Acute Tox. 4 - H302
 Acute Tox. 3 - H311
 Skin Irritant. 2 - H315
 Eye Irritant. 2 - H319

SECTION 4 - FIRST AID MEASURES**Description of first aid measures**

General information Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention immediately.

Ingestion Get medical attention immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless under the direction of medical personnel.

Skin Contact Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash clothing and clean shoes thoroughly before reuse.

Eye contact Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards.

Inhalation Gas or vapor in high concentrations may irritate the respiratory system. Vapor may affect central nervous system. Vapors may cause headache, fatigue, dizziness and nausea.

Ingestion May be harmful if swallowed. May cause nausea, headache, dizziness and intoxication.

Skin contact Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

Eye contact May cause irritation. A single exposure may cause the following adverse effects: Pain. Severe irritation, burning, tearing and blurred vision. Corneal damage.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing None known. media

Special hazards arising from the substance or mixture

Flammability Class 3.1 Combustible Liquid IIIA

Specific hazards Combustible liquid. Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO₂). Carbon monoxide (CO).

Protective actions during firefighting Evacuate area. Stop leak if safe to do so. Use water to keep fire exposed containers cool and disperse vapors. Use water spray to reduce vapors.

Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective for firefighters clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapors. Wash thoroughly after dealing with a spillage.

Environmental precautions Avoid release to the environment.

Methods for cleaning up Eliminate all sources of ignition. Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-combustible material. Dilute contained spill with water. Collect and place in suitable waste disposal containers and seal securely.

SECTION 7 - HANDLING AND STORAGE

GRADE 570 INK

Revision 5/7/2017

- Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet.
- Advice on general** Do not eat, drink or smoke when using this product. Provide eyewash station and safety occupational hygiene shower. Good personal hygiene procedures should be implemented. Wash skin thoroughly after handling.
- Storage precautions** Keep only in the original container in a cool, well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Occupational exposure limits**

Glycol Ether DB

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 67.5 mg/m³ inhalable fraction and vapor Glycol Ether EBLong-term exposure limit (8-hour TWA): ACGIH 20 ppm 97 mg/m³Long-term exposure limit (8-hour TWA): OSHA 50 ppm 240 mg/m³ A3, Sk

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans. Sk = Danger of cutaneous absorption.

Ingredient comments Data based on literature. Product not tested.

Glycol Ether EB (CAS: 111-76-2)

Appropriate engineering controls this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist. Use explosion-proof ventilating equipment.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures Provide eyewash station and safety shower.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapor filter.

Thermal hazards If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.

Environmental exposure controls Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colored liquid.

Color Various.

Odor Ether.

Odor threshold Not available.

pH pH (concentrated solution): 6.0 - 8.5

Melting point -75°C/-103°F

Initial boiling point and range 169°C/336°F @ 760 mm Hg

Flash point 67°C/153°F CC (Closed cup).

Evaporation rate 0.1 (butyl acetate = 1)

Upper/lower flammability or explosive limits

Upper flammable/explosive limit: 12.7 % vol

Lower flammable/explosive limit: 0.95 % vol

Vapour pressure 0.6 mm Hg @ 20°C/68°F

Vapour density 4.08

Relative density 2.016 g/cc 2016 g/l 16.79 lbs/gal

Solubility(ies) Soluble in the following materials: Ether. Miscible with water.

Partition coefficient log Pow: 0.83

Auto-ignition temperature 204°C/400°F

Decomposition Temperature Not applicable.

Explosive properties Not applicable.

Oxidising properties Not applicable.

Comments Information given is applicable to the product as supplied.

Volatile organic compound This product contains a maximum VOC content of 439 g/l. This product contains a maximum VOC content of 3.66 lbs/gal.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity There are no known reactivity hazards associated with this product.
Stability Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions Strong oxidizing agents.
Conditions to avoid Avoid Heat, sparks, flames.
Materials to avoid Avoid Strong oxidizing agents.
Hazardous decomposition products Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity - oral Data based on literature. Product not tested.
 ATE oral (mg/kg)
 Acute toxicity - dermal 3,676.47
 ATE dermal (mg/kg) 8,088.24
 Acute toxicity - inhalation
 ATE inhalation (vapours mg/l) 80.88
 Specific target organ toxicity - single exposure
 Target organs Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin
 Specific target organ toxicity - repeated exposure
 Target organs Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin
 Aspiration hazard Not relevant.
 Toxicological information on ingredients.
 Glycol Ether EB
 Acute toxicity - oral
 ATE oral (mg/kg)
 Acute toxicity - dermal 500.0
 ATE dermal (mg/kg)
 Acute toxicity - inhalation 1,100.0
 ATE inhalation (vapours mg/l)
 Carcinogenicity 11.0
 IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Data based on literature. Product not tested.
 Glycol Ether EB Acute toxicity - fish LC₅₀, 96 hours: 220 mg/l, Fish
 Bioaccumulative potential
 Partition coefficient log Pow: 0.83

SECTION 13 - DISPOSAL CONSIDERATIONS

General information Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.
Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14 - TRANSPORT INFORMATION

UN Number The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).
UN proper shipping name Not applicable.
Transport hazard class(es) No transport warning sign required.
Packing group Not applicable.
Environmentally Hazardous Substance No.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15 - REGULATORY INFORMATION

Regulatory Status Hazardous Chemical
 Regulatory References OSHA Hazard Communication Standard, 29 CFR 1910.1200
 US Federal Regulations
 SARA 313 Emission Reporting
 Glycol Ether DB
 1.0 %

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1.0 %

US State Regulations

California Air Toxics "Hot Spots" (A-I)

Glycol Ether DB Present.

Glycol Ether EB Present.

California Directors List of Hazardous Substances The following ingredients are listed or exempt:

Glycol Ether EB Present.

Massachusetts "Right To Know" List The following ingredients are listed or exempt:

Glycol Ether EB Present.

Rhode Island "Right To Know" List The following ingredients are listed or exempt:

Glycol Ether EB

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Glycol Ether EB Present.

New Jersey "Right To Know" List The following ingredients are listed or exempt:

Glycol Ether EB Present.

Pennsylvania "Right To Know" List The following ingredients are listed or exempt:

Glycol Ether EB Present.

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

The following ingredients are listed or exempt:

Glycol Ether DB

Glycol Ether EB

Japan - MITI

The following ingredients are listed or exempt:

Glycol Ether DB

Glycol Ether EB

Korea - KECI

The following ingredients are listed or exempt:

Glycol Ether DB Glycol Ether EB

China - IECSC

The following ingredients are listed or exempt:

Glycol Ether DB

Glycol Ether EB

Philippines - PICCS

The following ingredients are listed or exempt:

Glycol Ether DB

Glycol Ether EB

SECTION 16 - OTHER INFORMATION

General information Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed.

Hazard statements in full

H227 Combustible liquid.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H320 Causes eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

NFPA - flammability hazard

Burns only if heated moderately. (2)

NFPA - health hazard Temporary incapacitation, injury. (2)
NFPA - instability hazard Normally stable. (0)
ACA HMIS Health rating. Moderate hazard. (2) Chronic hazard.
ACA HMIS Physical hazard rating. Normally stable. (0)
ACA HMIS Personal protection rating. C
ACA HMIS Flammability Burns only if heated moderately. (2) rating.

DISCLAIMER OF LIABILITY

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