



Material Safety Data Sheet

*** Section 1 - Product and Company Identification ***

MSDS Code: 3100-015A

Product Name: Fan-Apart Adhesive

Product Use: Fan-Apart Adhesive for Carbonless Paper.

Synonyms: Edge Padding Adhesive; Padding Compound; NEO-1

Manufacturer Information

P.H. Glatfelter Company
Printing and Carbonless Papers Division
401 South Paint Street
Chillicothe, Ohio 45601

Phone: (740) 772-3111

Emergency # 1-800-424-9300 CHEMTREC

General Comments

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
Not Available	Synthetic Polymer Mixture	20-45
57-55-6	Propylene Glycol	15-25
64-17-5	Ethanol, denatured	2-10

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview

- * Product is a milky white liquid with a balsam odor.
- * May cause eye, and skin irritation.
- * Inhalation of mist may cause respiratory tract irritation.

Potential Health Effects: Eyes

Any foreign material in the eye may cause slight irritation (e.g., redness and tears). Not a primary eye irritant based on animal data.

Potential Health Effects: Skin

Not a primary skin irritant based on animal data. Skin absorption is not expected to be a significant route of entry for this product. Prolonged or repeated skin exposure may cause dryness or dermatitis. Does not cause allergic skin sensitization based on animal data.

Material Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015A

Potential Health Effects: Ingestion

Exposure by ingestion is not expected to occur through normal industrial use. Product is not harmful by ingestion based on animal data.

Potential Health Effects: Inhalation

This product is not an inhalation hazard under normal conditions of use. Inhalation of high concentration of vapors or mists may cause mild to moderate respiratory tract irritation.

Medical Conditions Aggravated by Exposure:

Exposure may aggravate pre-existing skin, liver, and kidney disorders.

***** Section 4 - First Aid Measures *****

First Aid: Eyes

First check the victim for contact lenses and remove if present. Immediately flush eyes with plenty of water or normal saline for at least 15 minutes while holding eyelids open. If symptoms such as redness or irritation develop or persist, get immediate medical attention. Do not put any medication in the victim's eyes unless instructed by a physician.

First Aid: Skin

Wash skin with soap and flush thoroughly with plenty of water. Obtain medical attention if irritation develops, or other symptoms occur. Wash clothing before reuse.

First Aid: Ingestion

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. If the victim is unconscious, keep airway open and lay the victim on his or her side with the head lower than the body.

First Aid: Inhalation

If exposed to excessive levels of vapors or mists, remove to fresh air and get medical attention if other symptoms develop.

First Aid: Notes to Physician

This product contains ingredients which may aggravate pre-existing skin, liver, and kidney disorders. The ethyl alcohol in this product has been denatured with methanol, treat affected person appropriately.

***** Section 5 - Fire Fighting Measures *****

Flash Point: >208° F (>97.8° C)

Upper Flammable Limit (UFL): Not available

Rate of Burning: Not determined

Auto Ignition: Not available

Method Used: Pensky-Martens Closed Cup

Lower Flammable Limit (LFL): Not available

Flammability Classification: Combustible Liquid
IIIB

General Fire Hazards

Product will not sustain combustion if ignition source is removed, per ASTM D-4206 testing.

Material Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015A

Hazardous Combustion Products

Hazardous combustion products include black smoke and toxic fumes of carbon dioxide and carbon monoxide.

Extinguishing Media

For fires involving this product, use an extinguisher, which is appropriate for combustibles and surrounding classes of fires. Use carbon dioxide, dry chemical, alcohol foam, or waterspray when fighting fires involving this material. Water may be ineffective as an extinguishing agent, but water should be used to keep fire-exposed containers cool to prevent build-up and possible autoignition or explosion when exposed to extreme heat.

Fire Fighting Equipment/Instructions

Keep unnecessary people away; isolate hazard area and deny entry. Remove containers exposed to fire if possible; otherwise cool them from the side with water spray. Emergency equipment including self-contained breathing apparatus (SCBA) and full fire fighting turnout gear should be worn by fire fighters.

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Ventilate the area of the spill and isolate the area.

Clean-Up Procedures

Absorb small spills using inert material (e.g. paper towels, spill control pillows, absorbent particulate). Scoop up material for recovery or cover with inert absorbent material. Scoop up absorbed material and place in a container for disposal. In the event of a large spill, contain by diking with dry sand, sorbent booms, or other absorbent material. When cleaning spills, wear appropriate personal protective equipment including splash-proof safety goggles and chemical resistant gloves (see Section 8).

Evacuation Procedures

Close off area. Keep unnecessary personnel away.

Special Procedures

None

*** Section 7 - Handling and Storage ***

Handling Procedures

Use in a well-ventilated area. Avoid breathing vapors or mists. Avoid contact with eyes and prolonged contact with skin.

Storage Procedures

Keep containers closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible materials (see Section 10). Avoid freezing or high temperatures that degrade adhesive quality.

Material Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015A

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Neither the Occupational Safety and Health Administration (OSHA) nor the American Conference of Governmental Industrial Hygienists (ACGIH) has developed exposure limits for this product. Exposure limits exist for the following ingredients:

B: Component Exposure Limits

Ethanol, denatured (64-17-5)

ACGIH: 1000 ppm TWA

OSHA: 1000 ppm TWA; 1900 mg/m³ TWA (Final)

Engineering Controls

No special ventilation requirements. Good room ventilation should be sufficient to control airborne levels. If operations generate vapor or mist, use adequate general or local ventilation to keep airborne concentrations below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Recommend use of safety glasses with side shields or goggles.

Personal Protective Equipment: Skin

Recommend the use of nitrile or rubber gloves to prevent skin contact. Customer is responsible for determining suitability of gloves for the work environment and other solvents or chemicals to which the employee may normally be exposed. Replace gloves at first signs of deterioration (hardening, cracking, softening or swelling). Depending on the operation, a labcoat, apron or other impermeable clothing may be appropriate. If adhesive contacts clothing, remove contaminated clothing and launder before reuse. (Dried product is not easily removed from fabric. Immediate laundering is recommended before latex dries).

Personal Protective Equipment: Respiratory

Respiratory protection not normally required. If airborne contaminant levels may exceed recommended exposure limits, NIOSH approved respiratory protection appropriate for employee exposure levels is recommended. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.1 requirements must be followed whenever workplace conditions warrant a respirator's use.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Milky white	Odor: balsam
Physical State: Liquid	pH: 7.3-7.8
Vapor Pressure: Not established	Vapor Density: Not available
Boiling Point: 208° F (98° C)	Melting Point: Not available
Solubility (H₂O): dispersible	Specific Gravity: > 1.0
Viscosity: Not established	Percent Volatile: 80-90%

Material Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015A

*** Section 10 - Stability & Reactivity Information ***

Chemical Stability

Product is stable under normal conditions of use. However, it may decompose at elevated temperatures.

Chemical Stability: Conditions to Avoid

Avoid heat, high temperatures, pressure, mechanical shock, incompatibles or other conditions that might result in a hazardous situation.

Incompatibility

The ingredients of this product are incompatible with strong oxidizing agents. Ethyl alcohol is incompatible with peroxides, strong acids, acid chlorides, acid anhydrides, alkali metals, and ammonia.

Hazardous Decomposition

Hazardous decomposition products include black smoke and toxic fumes of carbon dioxide and carbon monoxide.

Hazardous Polymerization

Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

The acute oral LD50 (rat) value for this product was determined to be greater than 5 g/kg per body weight.

The acute dermal LD50 (rabbit) value for this product was determined to be greater than 2 g/kg per body weight.

Based on the test results, this product would not be considered an eye irritant.

In a dermal irritation study with rabbits, this product was not found to be a primary skin irritant. The maximum primary skin irritation score was 0.17. The Primary Irritation Index was calculated to be 0.04. Based on these test results, this product would not be considered a dermal irritant.

In a dermal sensitization study, this product was not found to be a dermal sensitizer.

This product contains ethyl alcohol that may be irritating to the eyes, nose and respiratory system at very high vapor concentrations. Repeated ingestion of ethyl alcohol may result in liver damage. The ethanol in this product has been denatured with methyl alcohol. Methyl alcohol can be toxic by the oral, dermal or inhalation routes of exposure. Sub-lethal exposures have been shown to produce ocular damage that may result in blindness and central nervous system effects. Prolonged exposure to high levels of methyl alcohol vapor may cause burning of the eyes, digestive upset, failure of vision, liver damage, dizziness, disturbed sleep and death.

Material Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015A

B: Component Analysis - LD50/LC50

Ethanol, denatured (64-17-5)

Oral LD50 Rat : 7060 mg/kg

1,2-Propylene glycol (57-55-6)

Oral LD50 Rat : 20000 mg/kg

Dermal LD50 Rabbit : 20800 mg/kg

Carcinogenicity

A: General Product Information

No information available for product.

B: Component Carcinogenicity

Ethanol (64-17-5)

IARC: Monograph 96 (2007)(in alcoholic beverages) (Group1 (carcinogenic to humans))

Neurotoxicity

No information available for product.

Mutagenicity

No information available for product.

Teratogenicity

Ingestion of ethyl alcohol is responsible for fetal alcohol syndrome which includes a number of teratogenic results: spontaneous abortions, birth defects and developmental problems.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information is available on ecotoxicity of this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethanol, denatured (64-17-5)

Test & Species

LC50 (96 hr) Oncorhynchus mykiss 12900 mg/L.

LC50 (96 hr) Pimephales promelas 14.2 mg/L

Conditions

Flow-through; 30 days old

1,2-Propylene glycol (57-55-6)

Test & Species

LC50 (96 hr) Oncorhynchus mykiss 51600 mg/L.

LC50 (96 hr) Pimephales promelas 51400 mg/L

Conditions

Static

Static

Environmental Fate

No data available for this product.

Material Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015A

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Under 40 CFR 261, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of in accordance with all applicable Federal, State, and Local regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Not regulated as a hazardous material for transportation.

TDG Information

Not regulated as a dangerous good for transportation.

International Transportation Regulations

International Air Transportation Association (IATA):

Not regulated as a dangerous good for transportation.

International Maritime Dangerous Goods (IMDG) Code:

Not regulated as a dangerous good for transportation.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information available.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 311/312: Immediate: Yes Delayed: Yes Reactive: No Pressure: No Fire: Yes

State Regulations

A: General Product Information

No information available

Material Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015A

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	MA	MN	NJ	PA	RI
Propylene Glycol	57-55-6	No	No	Yes	Yes	Yes	Yes
Ethanol, denatured	64-17-5	Yes	Yes	Yes	Yes	Yes	Yes

C. California Proposition 65:

This product may contain trace amounts of Acetaldehyde, 1,3 Butadiene, Chloroprene, 1,4 Dioxane, Ethylene Oxide, and Formaldehyde.

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains chemical(s) known to the state of California to cause cancer and reproductive/developmental harm.

Other Regulations

A: General Product Information

None

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL/NDSL	EINECS
Propylene Glycol	57-55-6	Yes	Yes	Yes
Ethanol, denatured	64-17-5	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Propylene Glycol	57-55-6	1%; English Item 1362; French Item 1454

*** Section 16 - Other Information ***

Hazard Ratings

[Refer to Section 3 for additional label information, including target organ effects.]

A hazard rating has not been developed by NFPA for this product. The hazard ratings included in this MSDS have been developed based on NFPA and HMIS criteria as well as professional judgement. This information is intended solely for the use of individuals trained in these hazard rating systems.

HMIS:

HMIS Health: 1*

HMIS Fire: 2

HMIS Reactivity: 0

NFPA:

NFPA Health: 1

NFPA Fire: 2

NFPA Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard.

Material Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015A

Label Information

CAUTION!

PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN DRYNESS OR DERMATITIS.

WARNING! This product contains chemical(s) known to the state of California to cause cancer and reproductive/developmental harm.

Do not puncture or incinerate container.

Keep container closed.

Use only with adequate ventilation.

Avoid breathing vapors or mists.

Avoid contact with eyes, skin, and clothing.

Wash thoroughly after handling.

FIRST AID: If inhaled, remove to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, administer oxygen (by trained personnel only).

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. If the victim is unconscious, keep airway open and lay the victim on his or her side with the head lower than the body.

In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation develops or persists. Clean contaminated clothing, before reuse, or dispose of properly.

For additional information, refer to the Material Safety Data Sheet (MSDS) for this product.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists. TLV = Threshold Limit Value. NIOSH = National Institute of Occupational Safety and Health. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. NFPA = National Fire Protection Association. HMIS = Hazardous Material Information System. CFR = Code of Federal Regulations. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. SARA = Superfund Amendments and Reauthorization Act. HEPA = High Efficiency Particulate Air.

Preparation And Revision Information

Prepared by the P.H. Glatfelter Company (Glatfelter), Printing and Carbonless Papers Division, Product Stewardship Center, 401 South Paint Street, Chillicothe, OH 45601.

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This is the end of MSDS # 3100-015A