



G L A T F E L T E R

Safety Data Sheet

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

MSDS Code: 3100-015E

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 # (703) 527-3887 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 ***

EC #	Component	Percent	Symbol	Risk Phrases
Exempt	Synthetic Polymer Mixture	20-45		
200-338-0	Propylene Glycol	15-25		
200-578-6	Ethanol	2-10	F	R11
200-659-6	Methanol (denaturant)	0.2-1	F; T	R11-23/24/25-39/23/24/25

*** Section 3 - Hazards Identification ***

Preparation Classification

This product is not classified as hazardous according to European Union Directives 67/548/EEC and 1999/45/EC

Emergency Overview

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

Potential Health Effects: Eyes

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

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

Potential Health Effects: Skin

Not classified as a skin irritant based on animal data. Not classified as a skin sensitizer based on animal data. Prolonged or repeated skin exposure may cause dryness or dermatitis.

Potential Health Effects: Ingestion

Exposure by ingestion is not expected to occur during normal industrial use. Not classified as 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 vapours 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.

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

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

Flash Point: >97.8° C

Method Used: Pensky-Martens Closed Cup

Upper Flammable Limit (UFL): Not available

Lower Flammable Limit (LFL): Not available

Rate of Burning: Not determined

Auto Ignition: Not available

Flammability Classification: Not classified

General Fire Hazards

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

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

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

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

Handling Procedures

Use in a well-ventilated area. Avoid breathing vapours 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.

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

Exposure Guidelines

A: General Product Information

Neither the European Union nor the Member States have developed exposure limits for this product. Exposure limits exist for the following ingredients:

B: Component Exposure Limits

Ethanol (200-578-6)

- ACGIH: 1000 ppm TWA
- Austria: 2000 ppm STEL; 3800 mg/m³ STEL
1000 ppm MAK; 1900 mg/m³ MAK
- Belgium: 1000 ppm TWA; 1907 mg/m³ TWA
- Denmark: 1000 ppm TWA; 1900 mg/m³ TWA
- Finland: 1300 ppm STEL; 2500 mg/m³ STEL
- France: 5000 ppm VLCT; 9500 mg/m³ VLCT
1000 ppm VME; 1900 mg/m³ VME
- Germany: 500 ppm TWA (exposure factor 2); 960 mg/m³ TWA (exposure factor 2)
- Greece: 1000 ppm TWA; 1900 mg/m³ TWA
- Ireland: 1000 ppm TWA; 1900 mg/m³ TWA
- Portugal: 1000 ppm TWA
- Spain: 1000 ppm VLA-ED; 1910 mg/m³ VLA-ED
- Sweden: 500 ppm LLV; 1000 mg/m³ LLV

1,2-Propylene glycol (200-338-0)

- Ireland: 150 ppm TWA (total vapour and particulates); 470 mg/m³ (TWA (total vapour and particulates); 10 mg/m³ TWA (particulates)

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

Methanol (200-659-6)

- ACGIH: 250 ppm STEL
200 ppm TWA
skin - potential significant contribution to overall exposure by the cutaneous route
- EU: 200 ppm TWA; 260 mg/m³ TWA
Possibility of significant uptake through the skin
- Austria: 800 ppm STEL; 1040 mg/m³ STEL
200 ppm MAK; 260 mg/m³ MAK
Skin notation
- Belgium: 250 ppm STEL; 333 mg/m³ STEL
200 ppm TWA; 266 mg/m³ TWA
Skin
- Denmark: 200 ppm TWA; 260 mg/m³ TWA
Potential for cutaneous absorption
- Finland: 250 ppm STEL; 330 mg/m³ STEL
200 ppm TWA; 270 mg/m³ TWA
Potential for cutaneous absorption
- France: 1000 ppm VLCT; 1300 mg/m³ VLCT
200 ppm VME (restrictive limit); 260 mg/m³ VME (restrictive limit)
- Germany: 200 ppm TWA (exposure factor 4); 270 mg/m³ TWA (exposure factor 4)
30 mg/L; Parameter = methanol; Material = urine; Sampling time = end of exposure/shift, after several shifts (for long-term exposures)
200 ppm MAK; 270 mg/m³ MAK
800 ppm Peak; 1080 mg/m³ Peak
Skin notation
- Greece: 250 ppm STEL; 325 mg/m³ STEL
200 ppm TWA; 260 mg/m³ TWA
- Ireland: 250 ppm STEL; 310 mg/m³ STEL
200 ppm TWA; 260 mg/m³ TWA
Potential for cutaneous absorption
- Netherlands: 400 ppm STEL; 520 mg/m³ STEL
200 ppm MAC; 260 mg/m³ MAC
Skin notation
- Portugal: 200 ppm TWA
- Spain: 200 ppm VLA-ED; 266 mg/m³ VLA-ED
skin - Potential for cutaneous exposure
- Sweden: 200 ppm LLV; 250 mg/m³ LLV
250 ppm STV; 350 mg/m³ STV

Engineering Controls

No special ventilation requirements. Good room ventilation should be sufficient to control airborne levels. If operations generate vapour 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.

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

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, European Standard EN149 approved respiratory protection appropriate for employee exposure levels is recommended.

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

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

*** 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.

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

*** 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 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.

B: Component Analysis - LD50/LC50

Ethanol (200-578-6)

Oral LD50 Rat : 7060 mg/kg

1,2-Propylene glycol (200-338-0)

Oral LD50 Rat: 20000 mg/kg

Dermal LD50 Rabbit: 20800 mg/kg

Methanol (200-659-6)

Inhalation LC50 Rat: 83.2 mg/L/4H

Inhalation LC50 Rat: 64000 ppm/4H

Oral LD50 Rat: 5628 mg/kg

Dermal LD50 Rabbit: 15800 mg/kg

Carcinogenicity

A: General Product Information

No information available for product.

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

B: Substance Carcinogenicity

Ethanol (200-578-6)

IARC: Monograph 96 (2007)(in alcoholic beverages)(Group 1 (carcinogenic to humans))

Germany: Category 5 (low carcinogenic potency)

Netherlands: Present

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

Based on an evaluation of the components, this product is not classified as dangerous for the environment.

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

Methanol (200-659-6)

Test & Species

96 Hr LC50 *Pimephales promelas* 28100 mg/L

96 Hr LC50 *Oncorhynchus mykiss* 13200 mg/L

Conditions

flow-through

Environmental Fate

No data available for this product.

*** Section 13 - Disposal Considerations ***

DISPOSAL EU

Avoid disposal, attempt to utilize the preparation completely. Prior to disposal of unused preparation, consult an approved waste disposal operative to ensure regulatory compliance. Refer to the European list (Decision N° 2000/532/CE as modified) to identify applicable waste number(s).

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

*** Section 14 - Transportation Information ***

International Transportation Regulations

Not classified as dangerous goods under relevant international transport regulations (ADR, RID, IATA, ICAO, IMDG).

*** Section 15 - Regulatory Information ***

European Union Regulations

A: General Product Information

EU Marking and Labeling: None

Other Regulations EU

A: General Product Information

The substances in this preparation have been checked against the European Inventory of Existing Commercial Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), and the No Longer Polymer (NLP) list. Substances not identified on these inventories are exempt (example: polymers).

B: Component Analysis - Inventory

Component	EC #	TSCA	DSL/NDSL	EINECS
Synthetic Polymer Mixture	Exempt	Yes	Yes	No
Propylene Glycol	200-338-0	Yes	Yes	Yes
Ethanol, denatured	200-578-6	Yes	Yes	Yes
Methanol	200-659-6	Yes	Yes	Yes

*** Section 16 - Other Information ***

Component Risk Phrases

Ethanol (200-578-6)

R11 Highly flammable.

Methanol (200-659-6)

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Key/Legend EU

ACGIH = American Conference of Governmental Industrial Hygienists; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IMO = International Maritime Organization; MAC/MAK = Maximum Concentration Value in the Workplace; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m³ = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not

Safety Data Sheet

Product Name: Fan-Apart Adhesive

ID: 3100-015E

Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NLP = No Longer Polymer; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; VLA/VLE = Work Exposure Threshold; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.

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 # 3100-015E