

SAFETY DATA SHEET

Section 1: Chemical Product and Company Information
1.1 Product Identifier

Product Name: Fanapart High Strength Padding Adhesive

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Adhesive used in the production of pads of paper.

Restrictions on Use: None

1.3 Details of the Supplier of the Safety Data Sheet

 Manufacturer: Appvion, Inc.
 825 East Wisconsin Avenue
 Appleton, WI 54911 USA
 Information Phone: 920-991-8875

1.4 Emergency Telephone Number

800-424-9300 (Chemtrec) +1-703-527-3887 for International Calls

Email: ehsp@appvion.com

SDS Date of Preparation/Revision: May 27, 2015

Section 2: Hazards Identification
2.1 Classification of the Substance or Mixture

EU Classification (1272/2008): Not Hazardous

US OSHA Classification (29CFR1910.1200): Flammable Liquid Category 3 (H226)

2.2 Label Elements:

WARNING! Contains ethanol

H226 Flammable liquid and vapor. Prevention: P210 Keep away from heat, sparks, open flames, hot surfaces – No smoking. P233 Keep container tightly closed. P240 Ground and Bond container and receiving equipment. P241 Use explosion-proof electrical and ventilating equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge P280 Wear protective gloves and eye protection.	Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P370 + P378 In case of fire: Use water spray, carbon dioxide, alcohol foam or dry chemical to extinguish. Storage P403 + P235 Store in a well-ventilated place. Keep cool. Disposal: P501 Dispose of contents and container in accordance with local and national regulations.
--	---

2.3 Other Hazards: None identified

Section 3: Composition/Information on Ingredients

3.2 Mixture

Component	CAS Number/ EINECS Number	Amount	EU/GHS Classification (1272/2008)
Water	7732-18-5 / 231-791-2	10-60%	Not Hazardous
Propylene Glycol (1,2-Propanediol)	57-55-6 / 200-338-0	10-40%	Not Hazardous
Acrylic Polymer	Proprietary	10-25%	Not Hazardous
Ethanol	64-17-5 / 200-578-6	5-25%	Flammable Liquid Category 2 (H225) Eye Irritation Category 2A (H319)
Formaldehyde	50-00-0 / 200-001-8	<0.02% (200 ppm)	Acute Toxicity Category 3 (H301, H311, H331) Skin Corrosion Category 1B (H314) Eye Damage Category 1 (H318) Skin Sensitizer Category 1 (H317) Carcinogen Category 1A (H350)

Refer to Section 16 for Full Text of GHS H Statements
 The exact percentages are a trade secret.

Section 4: First Aid Measures

4.1 Description of First Aid Measures
First Aid

Eyes: Remove contact lenses if present. Flush eyes thoroughly with large amounts of water, holding eyelids open. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing before reuse. If irritation or other symptoms develop, seek medical attention.

Ingestion: If swallowed, CALL A PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, DO NOT induce vomiting. Give one or two glasses of water to drink. Never induce vomiting or give diluents to someone who is unconscious, having convulsions, or who cannot swallow.

Inhalation: Move person to fresh air. Seek medical attention if irritation or other symptoms persist.

See Section 11 for more detailed information on health effects.

4.2 Most Important symptoms and effects, both acute and delayed: May cause mild eye and skin irritation. Inhalation of high concentrations of vapors may cause headache, dizziness and drowsiness.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required.

Section 5: Fire Fighting Measures

5.1 Extinguishing Media: Water spray, carbon dioxide, alcohol foam or dry chemical. Use water spray to cool fire exposed containers.

5.2 Special Hazards Arising from the Substance or Mixture: This product is classified as flammable based on the flashpoint, however, in testing it did not sustain combustion at either 60.9°C or 75.9°C. In use, flammable vapors could collect in poorly ventilated areas and present a fire hazard.

5.3 Advice for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Exposure of adhesive to fire and heat can create toxic fumes and vapors including carbon dioxide, carbon monoxide, nitrogen oxides, formaldehyde and other aldehydes, acrylic monomers and hydrocarbon residues.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Eliminate all sources of ignition and ventilate area. Evacuate unprotected individuals from the spill area. Wear appropriate protective clothing and equipment (See Section 8 for specific recommendations). CAUTION: Spilled material may be slippery.

6.2 Environmental Precautions: Avoid contamination of water supplies and environmental releases. Report spills as required to authorities.

6.3 Methods and Material for Containment and Cleaning Up: Contain and collect spill with inert materials such as commercial absorbent, sand or earth. Place into sealed drums for proper disposal.

6.4 Reference to Other Sections:

Refer to Section 13 for disposal information and Section 8 for protective equipment.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling:

Avoid breathing vapors, mists and aerosols. Use only with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wear appropriate protective equipment and clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep containers closed when not in use. Keep product away from excessive heat and open flames. In the United States refer to 29 CFR 1910.1048 for additional requirements for formaldehyde exposure.

Do not cut, drill, grind or weld on or near containers, even empty containers. Empty containers retain product residues that can be hazardous. Follow all MSDS precautions when handling empty containers.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a dry, well-ventilated area away from heat and direct sunlight. Store away from oxidizers and other incompatible materials. Do not use aluminum equipment for transfer or storage. Do not freeze. Store between 34°F and 120°F.

7.3 Specific end use(s):

Industrial uses: None identified

Professional uses: None identified

Section 8: Exposure Controls / Personal Protection

8.1 Control Parameters:

Chemical Name	US OEL	EU IOEL	UK OEL	German OEL	Biological Limit Value
Propylene Glycol (1,2-Propanediol)	10 mg/m ³ TWA AIHA WEEL	None Established	None Established	None Established	None Established
Acrylic Polymer	None Established	None	None Established	None	None Established

		Established		Established	
Ethanol	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV	None Established	1000 ppm TWA	500 ppm TWA	None Established
Formaldehyde	0.75 ppm TWA, 2 ppm STEL OSHA PEL 0.3 ppm Ceiling ACGIH TLV	None Established	2 ppm TWA / STEL	0.3 ppm TWA, 0.6 ppm STEL	None Established

8.2 Exposure Controls:

Recommended Monitoring Procedures: Collection on charcoal tubes or passive badges and analysis by gas chromatography.

Appropriate Engineering Controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.

Personal Protective Measurers

Respiratory Protection: If the exposure limits are exceeded a NIOSH or local authority approved respirator appropriate for the form and concentration of the contaminants should be used. In the United States a full-facepiece air-purifying respirator with formaldehyde cartridges can be used for concentrations up to 7.5 ppm (10 x PEL). Supplied air respirators may be required for higher exposures. Refer to OSHA 1910.1048 (the Formaldehyde Standard) for additional information and requirements for a cartridge change schedule. An air-purifying respirator with organic vapor cartridges can be used if the exposure limit for ethanol is exceeded. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.

Eye Protection: Safety glasses or goggles recommended.

Skin Protection: Impervious gloves such as nitrile, neoprene or butyl rubber recommended if needed to avoid prolonged contact. Refer to your safety equipment supplier for assistance in selection impervious protective clothing. Wear protective clothing as required to avoid prolonged skin contact when handling.

Other protection: None required.

Section 9: Physical and Chemical Properties

9.1 Information on basic Physical and Chemical Properties:

Appearance and Odor: Blue to white emulsion with a mild odor.

Solubility in Water:	Complete	Boiling Point:	Not determined
Odor Threshold:	Not determined	Partition Coefficient:	Not determined
pH:	3.37	Melting Point:	Not determined
Specific Gravity:	1.0224	Vapor Density:	>1
Evaporation Rate:	Not determined	Vapor Pressure:	59.3 mm Hg @ 20C (ethanol)
Flammability(solid/gas):	Not applicable	Flash Point:	107.1 – 109.8°F (41.7-43.2°C) CC
Explosive Limits:	LEL: 2% (ethanol) UEL: 19% (ethanol)	Autoignition Temperature:	Not determined
Decomposition Temperature:	Not determined	Viscosity:	10 @ 25C

Explosive Properties:	Vapors may be explosive in confined areas.	Oxidizing Properties:	None
VOC Content:	10.04% (102.7 g/L) calculated (refer to Section 15 for further information)	Sustained Combustibility:	This product did not sustain combustion when tested in accordance with the United Nations/Department of Transportation criteria at either 60.9°C or 75.9°C.

9.2 Other Information: None

Section 10: Stability and Reactivity

10.1 Reactivity: Not reactive under normal conditions of use and storage.

10.2 Chemical Stability: Stable.

10.3 Possibility of Hazardous Reactions: Reaction with strong oxidizers will generate heat.

10.4 Conditions to Avoid: Avoid heat, sparks, flames and all other sources of ignition.

10.5 Incompatible Materials: Avoid oxidizing agents, reducing agents, aluminum, acids and bases.

10.6 Hazardous Decomposition Products: Products of combustion include carbon dioxide, carbon monoxide, oxides of nitrogen, formaldehyde and other aldehydes, acrylic monomers and hydrocarbon residues.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects:

Potential Health Hazards

Inhalation: Inhalation of high concentrations of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, drowsiness, nausea and vomiting.

Skin Contact: Repeated or prolonged contact may cause irritation, drying, defatting of the skin and dermatitis.

Eye Contact: Liquid or vapors may cause mild irritation with causing tearing and redness.

Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea and vomiting.

Chronic Health Effects: Prolonged overexposure to ethanol may cause liver damage.

Acute Toxicity Values:

Propylene Glycol: LD50 oral rat 20-33.7 g/kg, LD50 skin rabbit 20.8 g/kg

Acrylic Polymer: LD50 oral rat >5 g/kg, LD50 skin rabbit >5 g/kg, LC50 inhalation rat >12.78 mg/L/1 hr.

Ethanol: LD50 oral rat 7060 mg/kg, LD50 skin rabbit 20 g/kg, LC50 inhalation rat 20000 ppm/10hr

Formaldehyde: LD50 oral rat 100 mg/kg, LC50 inhalation rat 203 mg/m³, LD50 skin rabbit 270 uL/kg

Skin corrosion/irritation: Components are not skin irritants.

Eye damage/ irritation: No data available for this product. Ethanol is classified as an eye irritant but in mixtures only at 50%. Other components are not eye irritants.

Respiratory Irritation: No data available. Components are not respiratory irritants.

Skin Sensitization: No data available for the product. Relevant components are not sensitizers. Formaldehyde is classified as a skin sensitizer.

Respiratory Sensitization: No data available. Relevant components are not sensitizers. Formaldehyde may cause respiratory sensitization.

Germ Cell Mutagenicity: This product is not expected to present a risk of genetic damage. Components are not germ cell mutagens.

Carcinogenicity: None of the components present at 0.1% or greater is listed as a potential carcinogen by IARC, NTP, OSHA or EU CLP. This product contains a small amount (0.02%/200 ppm) of formaldehyde which is listed by IARC as a group 1 carcinogen, by NTP as reasonably anticipated to be a human carcinogen, by OSHA as a carcinogen and in the EU as a category 1B carcinogen.

Developmental / Reproductive Toxicity: Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, resulting in fetal alcohol syndrome. These effects include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small head size. Ethanol used for industrial purposes is not classified as toxic to reproduction.

Specific Target Organ Toxicity (Single Exposure): No specific data is available. No adverse effects are expected.

Specific Target Organ Toxicity (Repeated Exposure): No specific data is available. No adverse effects are expected.

Section 12: Ecological Information

12.1 Toxicity: Propylene glycol: LC50 Pimephales promelas): 4600-54,900 mg, EC50 daphnia magna 4850-34,400 mg/L. Ethanol: LC50 rainbow trout 13,000 mg/L/96 hr; EC50 Daphnia magna >1000 mg/L/48 hr; ErC50 green algae 9310 mg/L/48 hr.

12.2 Persistence and degradability: Propylene glycol and ethanol are readily biodegradable. The acrylic polymer is not readily biodegradable but will readily absorb onto water treatment sludge and would be eliminated from effluent.

12.3 Bioaccumulative Potential: Based on a BCF <100 and log Kow <3 propylene glycol is not expected to bioaccumulate. Ethanol is not bioaccumulations (BCF 3).

12.4 Mobility in Soil: Ethanol and propylene glycol are highly mobile in soil.

12.5 Results of PBT and vPvB assessment: None required.

12.6 Other Adverse Effects: None known.

Section 13: Disposal Considerations

13.1 Waste Treatment Methods:

Dispose in accordance with all local, state and national regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations

Section 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not regulated	None	None	No
Canadian TDG	None	Not regulated	None	None	No
EU ADR/RID	None	Not regulated	None	None	No
IMDG	None	Not regulated	None	None	No
IATA/ICAO	None	Not regulated	None	None	No

14.6 Special Precautions for User: None identified

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not applicable. Shipped in packaged form only.

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture
INTERNATIONAL INVENTORIES

EPA TSCA INVENTORY: All of the ingredients are listed on the TSCA inventory or exempt.

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.

European Inventory of Existing Commercial Chemical Substances (EINECS): All of the ingredients are listed on the EINECS inventory or exempt.

Australia: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances.

Japan MITI: All of the components are existing chemical substances as defined in the Chemical Substance Control Law.

Korean ECL: All of the components of this product are listed on the Korean Inventory.

Philippines: All of the components of this product are listed on the PICCS inventory.

United States Regulations
EPA SARA Regulations:

SARA 311/312 Hazard Categories:

- Y – Fire Hazard
- N – Sudden Release of Pressure
- N – Reactivity
- N – Acute Health
- N – Chronic Health

SARA 313: This does not contain chemicals above de minimus concentrations subject to the notification or reporting requirements of SARA 313.

CERCLA Section 103: The reportable quantity (RQ) for formaldehyde is 100 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

RCRA Status: This product, as sold, is not regulated under RCRA as a hazardous waste (aqueous alcohol solution exemption).

Volatile Organic Carbon Content: 10.04% (102.7 g/L) The VOC (volatile organic carbon) content has been calculated using the formula that appears in the US EPA and California regulations. This formula excludes all exempt materials (low vapor pressure VOCs) and water).

California Proposition 65: This product may contain the following chemicals known to the State of California to cause cancer: formaldehyde, acrylamide, ethyl acrylate and acetaldehyde.

International Regulations:

Europe:

Water Hazard Class: Not determined

Chemical Safety Assessment: None required

Other EU Regulations: This product is classified and labeled in accordance with EC Directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH)

Section 16: Other Information

NFPA RATING (NFPA 704)	FIRE: 1	HEALTH: 1	INSTABILITY: 0
HMIS RATING	FIRE: 1	HEALTH: 1	PHYSICAL HAZARD: 0

EU/GHS Hazard Statements for Reference (See Section 3):

- H225 Highly flammable liquid and vapor.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes severe eye damage
- H331 Toxic if inhaled.
- H350 May cause cancer.

Effective Date: 05/27/2015

Supersedes Date: 05/30/2013

Revision Summary: Convert to REACH/GHS Format with GHS/CLP classification.

SDS Number: API-CRP-002

This SDS complies with Regulation (EU) No. 1907/2006 and 453/2010, US OSHA Hazcom 2012 (29 CFR1910.1200) and Canada WHMIS 2015.

This information is furnished without warranty, expressed or implied. It is accurate to the best knowledge of Appvion, Inc. The data on this sheet is related only to the specific product designated herein. Appvion, Inc. assumes no legal responsibility for the use or reliance upon these data.