

Campbell Coutts Ltd

DCA Electrostatics Division

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Health and Safety Data Sheet

1. Identification of the Preparation and the Company

- 1.1 **Preparation Name** : **F57-16**
Intended Use : **Adhesive for flock applications**
- 1.2 **Supplied by** : **Campbell Coutts Ltd.**
Unit 7 Tower Industrial Estate, Tower Lane Eastleigh, Hampshire
Tel: 023 8061 3700 Fax: 023 8061 3355
- 1.3 **Emergency Telephone:** 023 8061 3700 or 01204 668282

2. Composition / Information on Ingredients

Chemical Nature: Modified Styrene Acrylic

Substances presenting a health hazard within the meaning of the Chemicals (Hazard Information & Packaging) Regulations 2002.

Ingredient	CAS Number	EINECS No	Concentration	Hazard	Risk Phrases
n-Propyl bromide	106-94-5	203-445-0	<8%	Xn	R20
Butylene Oxide	106-88-7		<0.1%	Xn	
Aliphatic Alcohol	71-23-8		<0.4%	F	

3. Hazards Identification

- 3.1 **Eye Contact** : May cause eye irritation.
3.2 **Skin Contact** : May cause sensitisation by skin contact.
3.3 **Inhalation** : Harmful by inhalation.
3.4 **Ingestion** : May cause irritation of throat & stomach if swallowed.
3.5 **Environmental** : Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

4. First Aid Measures

- 4.1 **Eye Contact** : Get immediate medical attention. Flush eyes holding the eye lid open immediately with plenty of clean water for a minimum of 15 minutes.
4.2 **Skin Contact** : If irritation persists, seek medical advice. Remove contaminated clothing, wearing gloves and taking care not to contaminate unaffected areas. Wash affected area with soap and water for a minimum of 15 minutes. Wash contaminated clothing.
4.3 **Inhalation** : Remove to fresh air. Keep warm and at rest. If there is difficulty breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. In case of irritation to respiratory system or mucous membranes, or if you fell unwell after exposure, get medical attention.
4.4 **Ingestion** : Get prompt medical attention. If individual is conscious, rinse the mouth with water and give water in small sips to dilute stomach contents. Do not induce vomiting. Keep warm and at rest. Take this data sheet.

5. Fire Fighting Measures

- 5.1 **Extinguishing Media** : Carbon dioxide, Dry chemical, Foam, Water fog
5.2 **Explosion /Hazard** : Water based resin, will not burn; dried film may give off toxic fumes in a fire.
5.3 **Special Exposure Hazards** : Keep cool by spraying with water. Do not release chemically contaminated water into the drains, soil or surface water.
5.4 **Personal Protection** : Full protective clothing with self contained breathing apparatus.

6. Accidental Release Measures

- 6.1 **Fire Hazard** : See section 5
- 6.2 **Personal Protection** : Extinguish sources of ignition. Avoid contact with skin, eyes and clothing. Wear protective clothing and breathing apparatus if exposure limits will be exceeded.
- 6.3 **Environmental Precautions** : Do not flush to storm sewer or waterway, prevent contamination of soil. Use temporary bund.
- 6.4 **Clean-up of Spillages** : For large spills, keep public away. Advise police if product has entered a watercourse or sewer. Scrape up with shovels and place in suitable containers for recycling or disposal. Soak up remainder or small spills with suitable absorbent inert material and place in suitable closed containers for approved disposal.

7. Handling & Storage

- 7.1 **Precautions during Handling** : Product contains hazardous volatile ingredients which could accumulate in the unvented headspace of drums or bulk storage vessels. Open containers in ventilated area. Do not pressurise containers. Avoid breathing vapours. Ensure good ventilation and use local exhaust. Emergency eye wash facilities should be available. Do not eat drink or smoke at the workplace. If you feel unwell, seek medical advice showing either the container label or this data sheet.
Material should not be spilled, discharged, or flushed into sewers or public waterways.
- 7.2 **Precautions during Storage** : Store at ambient temperature. Protect from freezing and temperature extremes ie between 5&25°C. Keep away from food, drink and animal feed-stuffs. Store in the original container securely closed in a cool, dry, well-ventilated area. Suitable storage materials – polyethylene containers.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits EH40/2002 (Please check the current edition to ensure the limits have not changed).

TWA Time Weighted Average

STEL Short Term Exposure Limit

NOTE: the toxicology of n-Propyl Bromide is still under review by various regulatory authorities. We recommend in the interim period a Workplace Exposure Guideline 8hr TWA of 25ppm or 131mg.m⁻³.

8.1 Exposure Limits					
Table 1: List of Approved Maximum Exposure Limits					
Substance	Long Term Exposure Limit (8 hour TWA Reference Period)		Short Term Exposure Limit (15 minute reference period)		Notes
	ppm	mg.m ⁻³	ppm	mg.m ⁻³	
Table 2: List of Approved Occupational Exposure Standards					
Substance	Long Term Exposure Limit (8 hour TWA Reference Period)		Short Term Exposure Limit (15 minute reference period)		Notes
	ppm	mg.m ⁻³	ppm	mg.m ⁻³	

- 8.2 **Ventilation** : Local exhaust ventilation
- 8.3 **Personal Protective Equipment**
- Respiratory** : Approved respirator if exposure limit is likely to be exceeded. In confined spaces, air fed masks or self contained breathing apparatus.
- Hand** : Gloves: PVC or nitrile rubber. Check for signs of degradation.
- Eye** : Protect against splashing, use chemical goggles or face shield.
- Skin** : Wear overalls or lab coat; rubber boots and apron if exposure is severe.

9. Physical and Chemical Properties

- 9.1 **Appearance** : White Liquid
- 9.2 **Odour** : Pungent
- 9.3 **pH** :
- 9.4 **Boiling Point** : >100°C

9.5	Melting Point	:	Not Tested
9.6	Flash Point	:	Not Tested
9.7	Flammability	:	Not Available
9.8	Auto Ignition Temperature	:	Not Available
9.9	Explosion Limits in Air % VN	:	LEL Not Available
		:	UEL Not Available
9.10	Oxidising Properties	:	Not Available
9.11	Viscosity at 25°C	:	poise
9.12	Vapour pressure @ 25°C :	:	Not Available
9.13	Relative Density @ 20°C	:	1.04
9.14	Solubility	:	Water- miscible

10. Stability and Reactivity

10.1	Stability	:	Stable under normal conditions
10.2	Hazardous Decomposition Products:	:	Thermal decomposition of dried film may release oxides of carbon & nitrogen

11. Toxicological Information

11.1	LD50 oral (Rats)	:	n-Propyl bromide: 4260mg/kg
11.2	LD50 Dermal (Rabbits)	:	Not Available
11.3	LC50 Inhalation (Rats)	:	n-Propyl bromide: 253,000mg/m ³ /0.5hrs
11.4	Effects of Exposure	:	<u>Corrosivity / Irritation</u> Eyes: May cause irritation & redness Skin: May cause skin irritation. Possible Dermatitis must be considered. Inhalation: Harmful by inhalation <u>Sensitisation</u> Skin: May cause sensitization

12. Ecological Information

12.1	Mobility	:	Preparation is miscible in water and likely to be carried large distances. If product enters soil, it will be mobile and may contaminate groundwater.
12.2	Persistence and Degradability	:	Base polymer is readily biodegradable; DOC elimination after 2 days (OECD302B): 98%. Base polymer can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.
12.3	Bioaccumulation	:	No evidence of bioaccumulation of base polymer
12.4	Ecotoxicity	:	Product has not been tested. Base polymer is not dangerous for the environment.


13. Disposal Considerations

13.1	Waste Disposal	:	Preparation & containers must be disposed of as hazardous waste by a licensed disposal agent in accordance with current, local & national regulations.
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14. Transport Information

14.1	Land, Sea, Air	:	Not Regulated for transport
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15. Regulatory Information

15.1	CHIP Regulation 9 Label for Supply	:	
15.2	Classification	:	Xi Harmful
15.3	Contains	:	
15.3	CHIP Risk Phrases	:	R20 Harmful by inhalation
15.4	CHIP Safety Phrases	:	S(2) Keep out of the reach of children S24/25 Avoid contact with skin & eyes S37/39 Wear suitable gloves and face/eye protection

S51 Use only in well ventilated areas

- 15.5 Regulatory References** :
- Health & Safety at Work Act 1974
 - Control of Substances Hazardous to Health Regulations 1999 – COSHH, COSHH Essentials
 - Chemicals (Hazard Information and Packaging for Supply) Regulations 2002, Approved Supply List 7th Edition, Approved Classification & Labelling Guide 5th Edition, The Compilation of Safety Data Sheets 3rd Edition
 - EH40 Occupational Exposure Limits (Current Edition)
 - EH64 Summary Criteria for Occupational Exposure Limit
 - Personal Protective Equipment (EC Directive) Regulations 1992, The Selection Use and Maintenance of Respiratory Protective Equipment: A practical guide HSG53, Cost and effectiveness of chemical protective gloves for the workplace: Guidance for employers and health and safety specialists HSG206
 - Waste: Local & National Regulations, The Waste Framework Directive (75/442/EEC), Hazardous Waste Directive (91/689/EEC), Environmental Protection Act 1990, Environment Act 1995, Special Waste Regulations 1996
 - Transport Regulations: Workplace Transport Safety: guidance for employers, ADR – Road Directive 94/55/EEC, IMDG – Sea, RID – Rail Directive 96/49/EC, ICAO/IATA – Air
 - Restrictions on Marketing and Use: Council Directive 76/769/EEC

16 Other Information

Section 2 Risk Phrases

R20 Harmful by inhalation

User Notes

The information contained on this safety data sheet is provided in good faith but without warranty. Aldcroft Adhesives Ltd. reserves the right to periodically review and update the information presented. It is intended to describe the product from a user safety viewpoint. The information should not be construed as guaranteeing specific performance properties. The user should make his own assessment from the information supplied and advise site accordingly. All technical chemical products can affect persons, especially those of an allergic disposition. The wearing of appropriate personal protective clothing and safety equipment is recommended as a precaution. Persons with known sensitivity should avoid contact altogether. Always ensure that the application is appropriate for the product and that installation is carried out strictly in accordance with directions for use. The user should regularly update himself regarding the current safety legislation affecting this product. Further advice on the recommended applications and limitations of this product may be obtained by contacting Aldcroft Adhesives Ltd.

- 16.1 Information Sources** : See 15.5
16.2 Number of Pages : 4
16.3 Data Sheet Reference : HS/JPA
16.4 Date of Preparation : 10th September 2004
16.5 Issue Number : 1