Air Resources Board

Alan C. Lloyd, Ph.D.
Chairman

2020 L Street • P.O. Box 2815 • Sacramento, California 95812 • www.arb.ca.gov

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

July 27, 1999

Dear Sir or Madam:

Enclosed are summaries of the aerosol adhesive products based on the responses submitted by industry to the March 3, 1999 *Aerosol Adhesives Survey*. Included is a confidential draft summary of your company's products (Aerosol Adhesives Company Summary) and a draft coded summary of all products (Generic Aerosol Adhesive Products Summary). We have categorized products into specific type of applications (see the enclosed draft categories and definitions of aerosol adhesives applications).

We request that you review the draft summary for your company, the draft coded summary of all products and the draft categories and definitions to verify that your products have been properly categorized. If you believe your products have not been properly categorized, please contact us with your comments and suggestions. Please submit your response by mail, telephone, fax, or e-mail to the following contact persons by August 13, 1999.

Ms. Linda Lee
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If you have any questions concerning this letter, please contact Ms. Linda Lee, Air Resources Engineer or Ms. Kim Nguyen, Air Resources Engineer. If you have any questions regarding the technical review of aerosol adhesives, please contact Mr. Gary M. Yee, Manager, Industrial Section, at (916) 327-5986.

Sincerely,

Dean C. Simeroth, Chief
Criteria Pollutants Branch

Enclosures

Categories and Definitions of Aerosol Adhesive Applications

1. ***Mounting:*** An aerosol adhesive intended primarily for use in mounting photographs, artwork, and any other drawn or printed media to a backing (paper, board, cloth).

2. ***High Performance:*** An aerosol adhesive that meets specialized performance requirements for demanding uses, such as, but not limited to, high contact bond strength, high temperature resistance, and plasticizer resistance. This category would include, but is not limited to:

- *2.1* Automotive applications, such as headliners, trim carpet, dashboards, etc.
- *2.2* Cabinet and countertop installation, maintenance, touch-up and repair, including high pressure laminate bonding and edge bonding.
- *2.3* Engine gasket bonding.
- *2.4* Upholstery applications such as foam and fabrics on furniture.
- *2.5* Applications on expanded polystyrene bead board.
- *2.6* Miscellaneous subcategory, such as bonding metal to rubber, rubber to rubber, low energy surfaces, polyolefins, etc.

3. ***Repositionable:*** An aerosol adhesive that, once applied, allows two substrates to be temporarily separated and then reapplied throughout the life of the bond without having to apply additional adhesive.

4. ***General Purpose:*** An aerosol adhesive that is designed for multi purpose uses on a variety of substrates. An example would be a general duty arts and crafts adhesive. The subcategories are based on bonding the following substrates.

- *4.1* Expanded polystyrene foam.
- *4.2* Paper.
- *4.3* Metal.
- *4.4* Rubber.

Generic Aerosol Adhesive Products Summary

DRAFT *7/26/99*

Code	ID	Lace	Par	Mou	HiP	Repo	Gen	Cera	EPF	Fab	Fib	Glass	HPL	Lea	Metl	Papr	Rubr	Styr	Vinyl	Wood	Other
1	25		✓	✓		✓										✓					
1	43		✓	✓						✓				✓	✓	✓					
1	72		✓	✓												✓					foils
1	73		✓	✓												✓					foils
1	80		✓	✓					✓	✓											cardboard
1	151		✓	✓						✓						✓					
2.1	22	✓		✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓		✓	✓	urethane foam
2.1	32		✓				✓		✓	✓	✓	✓			✓	✓		✓	✓	✓	
2.1	50	✓			✓										✓						automotive
2.1	58	✓			✓				✓				✓	✓			✓			✓	
2.1	64	✓			✓					✓	✓				✓				✓		Heavy weight headliners (hardboard)
2.1	70	✓			✓					✓	✓				✓		✓	✓	✓		light headliners (foam) plastic
2.1	75	✓			✓					✓					✓	✓		✓	✓	✓	automotive trim, decorative laminate
2.1	79	✓			✓										✓					✓	plastic
2.1	82		✓				✓			✓	✓				✓		✓	✓			carpeting, trunk liners
2.1	109		✓			✓				✓					✓						
2.1	142	✓			✓				✓	✓							✓				many automotive materials
2.1	161	✓					✓	✓	✓	✓				✓		✓	✓	✓	✓	✓	plastics
2.2	23	✓			✓				✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	can w/stand high heat and strong enough for HPL.
2.2	49	✓			✓						✓		✓		✓		✓		✓	✓	
2.2	62	✓			✓								✓	✓						✓	
2.2	63	✓			✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.2	69	✓			✓						✓		✓		✓		✓		✓	✓	
2.2	127		✓		✓		✓		✓	✓	✓		✓					✓		✓	some plastics
2.2	144	✓			✓						✓		✓	✓	✓	✓	✓			✓	
2.2	162	✓					✓						✓		✓	✓			✓	✓	plastics
2.2	167	✓			✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	plastic
2.3	19		✓	✓											✓	✓	✓				
2.3	38		✓	✓											✓	✓	✓				
2.3	125		✓	✓											✓						Gaskets
2.3	126	✓		✓	✓	✓									✓		✓			✓	
2.3	137		✓		✓										✓	✓	✓			✓	cork, asbestos

Par=Particle, Mou=Mount, HiP=High Performance, Repo=Repositionable, Gen=General Purpose, Cera=Ceramic, EPF=Expanded Polystyrene Foam, Fab=Fabric, Fib=Fiberglass

HPL= High Pressure Laminate, Lea=Leather, Metl=Metal, Papr=Paper, Rubr=Rubber, Styr=Styrofoam

Code=ARB Category Code, ID=Product ID

Generic Aerosol Adhesive Products Summary

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Code	ID	Lace	Par	Mou	HiP	Repo	Gen	Cera	EPF	Fab	Fib	Glass	HPL	Lea	Metl	Papr	Rubr	Styr	Vinyl	Wood	Other
2.3	139		✓		✓										✓						
2.4	18	✓					✓			✓											foam
2.4	54	✓			✓				✓	✓	✓						✓	✓			
2.4	55	✓			✓				✓		✓			✓			✓	✓			
2.4	59	✓					✓			✓											Foam
2.4	60	✓		✓		✓			✓	✓											
2.4	74		✓		✓			✓	✓	✓						✓	✓	✓			
2.4	105	✓					✓			✓											foam
2.4	119		✓				✓	✓	✓	✓						✓	✓	✓			
2.4	120	✓			✓				✓	✓											
2.4	156	✓					✓			✓											foam
2.4	166	✓			✓				✓	✓				✓			✓	✓		✓	
2.5	45	✓			✓				✓	✓	✓			✓		✓	✓	✓	✓	✓	Not good for high T and not for HPL; not a contact adh
2.5	121	✓			✓				✓		✓					✓	✓	✓			
2.5	130	✓			✓	✓	✓		✓	✓					✓		✓	✓	✓		
2.5	160	✓			✓			✓	✓	✓					✓			✓	✓		plastics
2.5	163		✓		✓			✓	✓	✓					✓			✓	✓		plastics
2.5	165	✓			✓				✓	✓	✓			✓	✓	✓	✓	✓		✓	plastic
2.5	168	✓			✓			✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	plastic
2.6	6	✓		✓		✓	✓			✓					✓	✓	✓				
2.6	36	✓			✓					✓	✓			✓	✓	✓	✓		✓	✓	
2.6	53		✓		✓					✓				✓		✓		✓	✓	✓	
2.6	77		✓		✓	✓				✓						✓	✓		✓		abrasive sanding disc film
2.6	100		✓		✓	✓				✓		✓			✓		✓			✓	cardboard, plastic films
2.6	110	✓		✓											✓						
2.6	133		✓		✓					✓				✓		✓		✓	✓	✓	
3	11		✓			✓		✓		✓		✓				✓					
3	12		✓			✓		✓		✓		✓				✓					
3	14	✓		✓	✓	✓				✓				✓		✓	✓				cardboard, plastic film, acetate, foil, cork
3	24		✓			✓				✓											
3	30	✓		✓		✓				✓				✓		✓	✓				cardboard, acetate, foil, plastic film, cork
3	42		✓			✓				✓						✓					
3	48	✓				✓				✓											

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Generic Aerosol Adhesive Products Summary

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Code	ID	Lace	Par	Mou	HiP	Repo	Gen	Cera	EPF	Fab	Fib	Glass	HPL	Lea	Metl	Papr	Rubr	Styr	Vinyl	Wood	Other
3	68		✓			✓				✓											
3	83		✓			✓				✓		✓			✓	✓					
3	94		✓		✓					✓											
3	98		✓			✓				✓											
3	134	✓		✓						✓			✓			✓		✓	✓	✓	
3	135	✓		✓						✓			✓			✓		✓	✓	✓	
3	141		✓			✓				✓				✓		✓	✓				cardboard, acetate, foil, plastic film, cork
3	147		✓			✓										✓					art materials
3	150		✓			✓				✓						✓					
3	152		✓	✓						✓						✓					
4.1	16		✓				✓	✓	✓	✓						✓	✓				
4.1	20	✓					✓		✓	✓				✓		✓			✓		foam rubber
4.1	33		✓				✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	
4.1	34	✓				✓	✓		✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	
4.1	39		✓			✓	✓		✓	✓				✓	✓	✓					
4.1	40		✓				✓		✓	✓		✓			✓	✓	✓		✓	✓	concrete
4.1	44		✓				✓		✓	✓	✓					✓		✓	✓	✓	light application (e.g., tack bags on pallet, temp. fix insulation in house, tack labels; photos...
4.1	61		✓				✓	✓	✓	✓						✓	✓	✓			
4.1	88		✓	✓		✓	✓		✓	✓				✓	✓			✓	✓	✓	
4.1	91		✓				✓		✓	✓	✓				✓						
4.1	102		✓				✓		✓	✓	✓	✓			✓	✓		✓	✓	✓	
4.1	122						✓		✓	✓	✓	✓		✓		✓		✓			
4.1	140		✓				✓		✓						✓					✓	foil, felt, ;fiberglass insulation, plasic film, cardboard, cork
4.1	145		✓			✓	✓		✓	✓		✓			✓	✓	✓		✓	✓	
4.1	159		✓				✓		✓	✓	✓				✓	✓		✓		✓	plastics
4.2	8		✓			✓	✓			✓		✓		✓	✓	✓				✓	
4.2	10	✓					✓	✓			✓	✓			✓	✓			✓	✓	
4.2	29		✓	✓						✓	✓			✓	✓	✓	✓		✓	✓	
4.2	47	✓					✓			✓		✓		✓		✓	✓				Mylar, foil , acetate, plastics, urethane
4.2	52		✓				✓									✓					
4.2	65	✓					✓			✓	✓	✓		✓	✓	✓					
4.2	66	✓					✓	✓		✓		✓				✓	✓	✓	✓	✓	
4.2	67	✓					✓									✓	✓				

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Code	ID	Lace	Par	Mou	HiP	Repo	Gen	Cera	EPF	Fab	Fib	Glass	HPL	Lea	Metl	Papr	Rubr	Styr	Vinyl	Wood	Other
4.2	76	☐	☑	☑	☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	☐	cardboard, cork, felt
4.2	81	☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	
4.2	84	☐	☑	☐	☐	☐	☑	☐	☐	☑	☑	☑	☐	☑	☑	☑	☐	☐	☐	☐	
4.2	85	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☑	☐	☐	☑	☑	
4.2	86	☑	☐	☑	☐	☐	☑	☐	☐	☑	☐	☑	☑	☐	☑	☑	☑	☑	☑	☑	
4.2	87	☐	☑	☐	☐	☐	☑	☐	☐	☑	☑	☑	☐	☑	☑	☑	☐	☐	☐	☐	foam, foils
4.2	90	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☑	☐	☐	
4.2	92	☑	☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	☑	☑	☑	☑	☐	☑	☑	foam
4.2	101	☐	☑	☐	☐	☐	☑	☐	☐	☑	☑	☑	☐	☑	☑	☑	☐	☐	☐	☐	
4.2	118	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☑	☐	☐	
4.2	124	☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	☐	☐	☑	☑	☐	☐	☐	☐	
4.2	136	☑	☐	☐	☐	☐	☑	☑	☐	☑	☐	☑	☐	☐	☐	☑	☑	☑	☑	☑	
4.2	146	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☑	☑	☑	
4.2	153	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☑	☑	☑	
4.2	154	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☑	☑	☑	
4.2	157	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☑	☑	☑	☑	☑	☑	Lithographic Plates and Films
4.2	158	☑	☐	☐	☐	☐	☑	☐	☐	☑	☑	☐	☐	☑	☑	☑	☑	☐	☑	☑	foam
4.3	31	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	
4.3	46	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	☑	☐	☑	☑	☐	☐	☐	☐	☑	
4.3	56	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	
4.3	78	☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	☐	☐	☑	☑	☑	
4.3	95	☐	☑	☐	☐	☐	☑	☐	☐	☑	☑	☐	☐	☐	☑	☐	☑	☐	☑	☐	molded plastics
4.3	99	☐	☑	☐	☐	☑	☑	☐	☐	☑	☐	☑	☐	☐	☑	☐	☑	☐	☐	☑	cardboard, plastic films
4.3	123	☐	☑	☐	☐	☐	☑	☐	☐	☑	☑	☐	☐	☐	☑	☐	☑	☑	☐	☐	Carpeting
4.4	148	☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☑	☐	concrete

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