

State of California
AIR RESOURCES BOARD

Notice of Public Hearing to Consider Establishment of State
Ambient Air Quality Standards for Vinyl Chloride

NOTICE IS HEREBY GIVEN that the Air Resources Board, pursuant to the authority vested by Section 39601 of the Health and Safety Code, and to implement, interpret or make specific Section 39606(b) of the Health and Safety Code, will hold a public hearing, at the time and place specified below, to consider the establishment of one or more state ambient air quality standards for vinyl chloride.

The Board requests evidence and testimony relating to the effects of vinyl chloride exposures on health, illness, and irritation to the senses. The Board also seeks information relating to the appropriateness of a 24-hour or other averaging period, and the appropriate test method.

If one or more new state ambient air quality standards for vinyl chloride are established, the Board will make appropriate amendments to its regulations in Section 70200, Title 17, California Administrative Code, relating to ambient air quality standards.

The time and place for the public hearing on this matter are as follows:

DATE: January 25, 1978
TIME: 10:00 a.m.
PLACE: Ambassador Hotel
Embassy Room
3400 Wilshire Blvd.
Los Angeles, CA

RECEIVED
DEC 30 1977
Stallor Chemical Co. L.B.

Copies of the staff report on this matter will be available for inspection at, or may be obtained from the headquarters office of the Air Resources Board, 1102 Q Street (P.O. Box 2815), Sacramento, California, 95812, Attention: Public Information Office, at least 30 days prior to the scheduled hearing date. All documents reviewed by the staff in connection with its consideration of the issues in the staff report, together with written comments received from interested persons, if any, will also be available for inspection and copying.

NOTICE IS FURTHER GIVEN that any interested person may present oral or written statements at the public hearing referred to above. The Board requests that interested persons who have written statements to submit on this matter, submit 10 copies of the same at least seven days prior to the scheduled hearing date in order to provide adequate time for staff

EXHIBIT A

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analysis and comment, and to allow early review by the Board. Interested persons are further advised that the Chairman may require oral testimony to be limited in scope or duration, as may be reasonable under the circumstances. All persons will be allowed at least five minutes for presentation of oral testimony. Following completion of the public hearing, the Air Resources Board, on its own motion or at the instance of any interested person, may establish one or more ambient air quality standards for vinyl chloride.

The Air Resources Board has determined that this action creates no additional cost to local government pursuant to Section 2231 of the Revenue and Taxation Code.

CALIFORNIA AIR RESOURCES BOARD



Thomas C. Austin
Deputy Executive Officer

December 21, 1977

EXHIBIT A

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State of California
AIR RESOURCES BOARD

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JAN 27 1978

NOTICE OF PUBLIC HEARING TO CONSIDER
ESTABLISHMENT OF STATE AMBIENT AIR QUALITY
STANDARDS AND/OR SIGNIFICANT HARM LEVELS
FOR VINYL CHLORIDE

ADMINISTRATIVE

NOTICE IS HEREBY GIVEN that the Air Resources Board, pursuant to the authority vested by Section 39601 of the Health and Safety Code, and to implement, interpret or make specific Sections 39606(b) and 41700 of the Health and Safety Code, will conduct a public hearing, at the time and place specified below, to consider the establishment of one or more state ambient air quality standards or significant harm levels (levels never to be exceeded) for vinyl chloride.

On January 25, 1978, the Board received a status report from its staff and comments from interested persons on this item. As a result of information received on January 25 and subsequent thereto, the Board is proposing to take one or more of the following actions with respect to vinyl chloride air pollution:

-- Pursue enforcement of the emission regulations for vinyl chloride monomer and related substances promulgated by the Environmental Protection Agency (EPA) on October 21, 1976 pursuant to Section 112 of the Clean Air Act [National Emission Standards for Hazardous Air Pollutants (NESHAPS)], and defer further state regulatory action until the NESHAPS emission regulations are fully implemented in October 1978.

-- Pursue enforcement of the NESHAPS emission regulations for vinyl chloride and related substances and adopt a state ambient air quality standard or standards for vinyl chloride or designate a Significant Harm Level or Levels for vinyl chloride on the basis of existing scientific evidence. The ambient air quality standard would be attained or exceedances of the Significant Harm Level(s) would be prevented by means of rules to be adopted subsequently by the South Coast Air Quality Management District (SCAQMD). These rules could be enforced, for example, by an air measurement program that includes continuous or frequent intermittent monitoring of vinyl chloride levels at the boundary line of vinyl chloride facilities to be conducted by the operators of such facilities, and/or by specific emission limitations. If the action taken is to set a Significant Harm Level, enforcement under Health and Safety Code Section 41700 could also be taken, through district permit requirements and/or legal action before a court of competent jurisdiction.

The Board requests evidence and testimony relating to the effects of vinyl chloride exposures on health, illness, and irritation to the senses. The Board also seeks information relating to the appropriateness of a 24-hour or other averaging period, and appropriate test methods. Staff analysis of comments received during and subsequent to the January 25, 1978 Board meeting will be presented.

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If one or more new state ambient air quality standards and/or Significant Harm Levels for vinyl chloride are established, the Board will make appropriate amendments to its regulations in Section 70200, Title 17, California Administrative Code, relating to ambient air quality standards.

The time and place for public hearing on this matter are as follows:

DATE: April 27, 1978

TIME: 10:00 a.m.

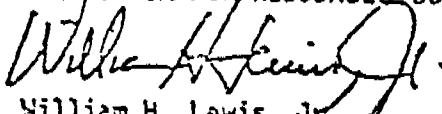
PLACE: Crystal Ballroom
Hotel San Franciscan
1231 Market Street
San Francisco, CA

Copies of the staff report on this matter will be available for inspection at, or may be obtained from, the headquarters office of the Air Resources Board, 1102 Q Street (P.O. Box 2815), Sacramento, California 95812. Attention: Public Information Office, at least 30 days prior to the scheduled hearing date. All documents reviewed by the staff in connection with its consideration of the issues in the staff report, together with written comments received from interested persons, if any, will also be available for inspection and copying.

NOTICE IS FURTHER GIVEN that any interested person may present oral or written statements at the public hearing referred to above. The Board requests that interested persons who have written statements on this matter submit 10 copies of the same at least seven days prior to the scheduled hearing date in order to provide adequate time for staff analysis and comment, and to allow early review by the Board. Interested persons are further advised that the Chairman may require oral testimony to be limited in scope or duration; however, all persons will be allowed at least five minutes for presentation of oral testimony. Following completion of the public hearing, the Air Resources Board, on its own motion or at the instance of any interested person, may establish one or more ambient air quality standards and/or Significant Harm Levels for vinyl chloride.

The Air Resources Board has determined that this action creates no additional cost to local government pursuant to Section 2231 of the Revenue and Taxation Code.

CALIFORNIA AIR RESOURCES BOARD


William H. Lewis, Jr.
Executive Officer

March 22, 1978

EXHIBIT B

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P R O P O S E D

State of California
AIR RESOURCES BOARD

May 25, 1978

Resolution 78-30

WHEREAS, Health and Safety Code Section 39606(b) requires the Air Resources Board to adopt standards of ambient air quality for the protection of the public health, safety, and welfare, including, but not limited to, health, illness, irritation to the senses, aesthetic value, interference with visibility, and effects on the economy;

WHEREAS, Health and Safety Code Section 39606(b) requires standards relating to health effects to be based upon the recommendations of the State Department of Health;

WHEREAS, the Board has received and reviewed a substantial body of evidence and testimony, in both written and oral form, from its staff and expert members of the public at hearings held on January 25, 1978, April 27, 1978 and May 24, 1978, relating to the adverse health effects including carcinogenic, mutagenic and teratogenic effects, of vinyl chloride (chloroethene, $\text{CH}_2=\text{CHCl}$);

WHEREAS, the Board has received a recommendation from the State Department of Health and its Air Quality Advisory Committee that a maximum allowable public exposure limitation for vinyl chloride in the range of 0.01 to 0.05 ppm, 24-hour average, will reduce the risk of adverse human health effects;

WHEREAS, there is no agreement in the scientific community as to whether a threshold ("no-effect") level can be specified or even exists for chemical carcinogens such as vinyl chloride;

WHEREAS, the National Emission Standard for Hazardous Air Pollutants (NESHAP) Standard for Vinyl Chloride does not assure that community exposure to vinyl chloride will be limited to any specified level;

WHEREAS, the Board finds that ambient concentrations of vinyl chloride in excess of _____ ppm will constitute an endangerment of the public health and welfare within the meaning of Section 41700; and

WHEREAS, Health and Safety Code Section 41700 prohibits any person from discharging quantities of air contaminants which endanger the health and welfare of a considerable number of persons or the public;

WHEREAS, the Board has held proceedings in conformance with the provisions of Chapter 4.5 (commencing with Section 11371), Part 1, Division 3, Title 2 of the Government Code;

NOW, THEREFORE, BE IT RESOLVED, that the Board adopts an ambient air quality standard for vinyl chloride, to be designated as a significant harm level (a level never to be exceeded), of _____ ppm, twenty-four hour average.

EXHIBIT C

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BE IT FURTHER RESOLVED, that the Board adopts this significant harm level for vinyl chloride to implement and interpret Section 41700 of the Health and Safety Code to distinguish the serious potential health effects of vinyl chloride and to establish a basis for immediate enforcement action if warranted.

BE IT FURTHER RESOLVED, that the Board specifies the measurement method developed by its staff and described in detail in Appendix 5 of Staff Report 78- 3 - 3 , or any method determined by the Executive Office to be equivalent to this method with respect to accuracy, precision and specificity, as the method to be used in determining whether ambient concentrations of vinyl chloride exceed the significant harm level.

BE IT FURTHER RESOLVED, that the Board amends its regulation in Title 17, California Administrative Code, by adding a new section 70200.5, to read as follows:

70200.5 Ambient Air Quality Standards*for Hazardous Substances.

Substance	Concentration and Methods	Duration of Averaging Periods	Most Relevant Effects	Comments
Vinyl Chloride (Chloroethene $\text{CH}_2=\text{CHCl}$)	ppm ARB method	24-hours	Known human and animal carcinogen	Low-level effects are undefined, but are potentially serious. This standard is based on a Critical Harm Level, not a threshold value.

NOTE:* Ambient concentrations in excess of the standards set forth above shall be deemed to constitute an endangerment to the public health and welfare, as defined in Health and Safety Code Section 41700.

EXHIBIT C

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APPROVED FOR FINAL
May 30, 1978

State of California
AIR RESOURCES BOARD

May 24, 1978

Resolution 78-30

WHEREAS, Health and Safety Code Section 39606(b) requires the Air Resources Board to adopt standards of ambient air quality for the protection of the public health, safety, and welfare, including, but not limited to, health, illness, irritation to the senses, aesthetic value, interference with visibility, and effects on the economy;

WHEREAS, Health and Safety Code Section 41700 prohibits any person from discharging quantities of air contaminants which endanger the health and welfare of a considerable number of persons or the public;

WHEREAS, the Board has received and reviewed a substantial body of evidence and testimony, in both written and oral form, from its staff and expert members of the public at a meeting and hearings held on January 25, 1978, April 27, 1978, and May 24, 1978, relating to the adverse health effects including carcinogenic, mutagenic and teratogenic effects, of vinyl chloride (chloroethene, $\text{CH}_2=\text{CHCl}$);

WHEREAS, there is no agreement in the scientific community as to whether a threshold ("no-effect") level can be specified or even exists for chemical carcinogens such as vinyl chloride;

WHEREAS, Health and Safety Code Section 39606(b) requires standards relating to health effects to be based upon the recommendations of the State Department of Health;

WHEREAS, the Board has received a recommendation from the State Department of Health and its Air Quality Advisory Committee that the ambient levels for vinyl chloride averaged over 24 hours be controlled at the lowest feasible level;

WHEREAS, the Board finds that there is no known level of ambient concentration of vinyl chloride below which an endangerment of the public health and welfare does not occur;

WHEREAS, the National Emission Standard for Hazardous Air Pollutants (NESHAP) standard for vinyl chloride does not assure that community exposure to vinyl chloride will be limited to any specified level;

WHEREAS, the Board finds that the lowest concentration level at which reliable measurements can be made is 0.010 ppm; and

WHEREAS, the Board has held proceedings in conformance with the provisions of Chapter 4.5 (commencing with Section 11371), Part 1, Division 3, Title 2 of the Government Code;

EXHIBIT D

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NOW, THEREFORE, BE IT RESOLVED, that the Board adopts an ambient air quality standard for vinyl chloride, of 0.010 ppm, twenty-four hour average.

BE IT FURTHER RESOLVED, that the Board adopts this standard for vinyl chloride to implement and interpret Section 41700 of the Health and Safety Code and to establish a basis for immediate enforcement action if warranted.

BE IT FURTHER RESOLVED, that the Board specifies the measurement method developed by its staff and described in detail in Appendix 5 of Staff Report 78-8-3, or any method determined by the Executive Officer to be equivalent to this method with respect to accuracy, precision and specificity, as the method to be used in determining whether ambient concentrations of vinyl chloride exceed the standard.

BE IT FURTHER RESOLVED, that the Board amends its regulation in Title 17, California Administrative Code, by adding a new section 70200.5, to read as follows:

70200.5 Ambient Air Quality Standards for Hazardous Substances.

Substance	Concentration and Methods	Duration of Averaging Periods	Most Relevant Effects	Comments
Vinyl Chloride (Chloroethene $\text{CH}_2=\text{CHCl}$)	0.010 ppm ARB method specified in Staff Report 78-8-3	24 hours	Known human and animal carcinogen	Low-level effects are undefined, but are potentially serious. Level is not a threshold level and does not necessarily protect against harm. Level specified is lowest level at which violation can be reliably detected by the method specified. Ambient concentrations at or above the standard constitute an endanger- ment to the health of the public.

EXHIBIT D

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PROCESSED FOR FILING

Office of

Air Resources Board

(Agency)

May 24, 1978

By:

Deputy Executive Officer

(Type)

FILED

11303. P. m.
Ostryja R. Hirschberg

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Add Section 70200.5 to read as follows:

70200.5 Ambient Air Quality Standards for Hazardous Substances.

Substance	Concentration and Methods	Duration of Averaging Periods	Most Relevant Effects	Comments
Vinyl Chloride (Chloroethene $\text{CH}_2=\text{CHCl}$)	0.010 ppm ARB method specified in Staff Report 78-8-3	24 hours	Known human and animal carcinogen	Low-level effects are undefined, but are potentially serious. Level is not a threshold level and does not necessarily protect against harm. Level specified is lowest level at which violation can be reliably detected by the method specified. Ambient concentration at or above the standard constitute an endangerment to the health of the public.

EXHIBIT E

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CONTINUATION SHEET
FOR FILING ADMINISTRATIVE REGULATIONS
WITH THE SECRETARY OF STATE
Pursuant to Government Code Section 11380.1

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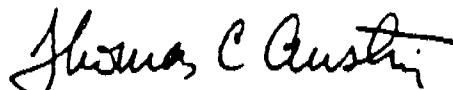
The above regulation submitted for filing does not include any "building standard" as defined in the State Building Standards Law (Sections 18900-18917, Health and Safety Code).

* * *

CERTIFICATE

The Air Resources Board has determined that the foregoing regulations create no cost to local government under Section 2231 of the Revenue and Taxation Code.

CALIFORNIA AIR RESOURCES BOARD



Thomas C. Austin
Deputy Executive Officer

EXHIBIT E

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