

CHEMICALS AND PLASTICS

P. O. BOX 471, TEXAS CITY, TEXAS 77590

TO (NAME) Plant letter list
COMPANY B, C1, 1A, 1B, 2, 2A, 3, 3A
LOCATION

DATE September 7, 1978

COPY TO

SUBJECT Respiratory Protection
Facial Hair

Recent questions regarding the Respiratory Protection policy concerning facial hair suggest that the policy should be reissued. The policy is attached.

With the introduction of positive pressure (pressure demand) breathing air equipment into the plant, the question has been asked, "why is it necessary to establish a seal between the face and the respirator since the pressure feature ensures that outside atmosphere cannot enter the facepiece?" The answer is simply that the apparatus cannot function as designed if there is an outward leak. The air supply will be depleted at a considerably faster rate which could lead to a serious problem. In addition, the positive pressure feature may be prevented from maintaining an adequate pressure difference.

Other questions have been asked concerning Non-UCC people such as Construction, Contractors, etc, and UCC employees from other locations. Non-UCC workers fall under the requirement of the policy when their jobs require them to enter confined spaces, act as stand-by attendants, or work in certain areas of the plant where respiratory equipment is mandated (i.e. Vinyl Chloride areas). The majority of Construction workers are not required to be trained to wear respiratory equipment but to vacate emergency areas. This is done for two reasons - we want them out of the way if there is an emergency and we neither have the equipment for them nor the means to insure that they are properly trained due to numbers involved and turnover.

Certain UCC employees from other facilities including Charleston and Houston Engineering people, must comply with the policy if they are to be consistently visiting the Manufacturing areas of the plant for longer than a two week period. They will be given respirator training but are expected, as with those of short duration visits, to evacuate an emergency area. Any of these people who intend to enter the Manufacturing area with a beard must first receive instruction regarding the respiratory policy.

These statements are designed to aid those of you who must enforce the policy and to educate those who must deal with plant visitors.

R. J. Taylor
R. J. Taylor
Safety Director

RJT/edc
Attachment

UCC 094689



INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

P. O. BOX 471, TEXAS CITY, TEXAS 77590

TO (NAME) Plant Letter Lists A, B, C, D
COMPANY
LOCATION TEXAS CITY PLANT

DATE March 17, 1976

COPY TO

SUBJECT Respiratory Protection -
Facial Hair

The attached guidelines have been developed to acquaint and inform you of the reasons for the necessity of the facial hair requirement in the plant. These requirements will be effective April 1, 1975.

A handwritten signature in cursive script, appearing to read "D. L. Engle", written over a horizontal line.

D. L. Engle

DLE/cew
Attachment

UCC 094690

RESPIRATORY PROTECTION - FACIAL HAIR

The style trend toward the wearing of long sideburns and beards has resulted in a problem in maintaining an adequate seal of respirator face masks. A study by the Los Alamos Laboratories has resulted in the conclusion "that persons with excessive facial hair such as facial stubble, sideburns, and beards which interfere with the respirator seal" cannot obtain as high degree of respirator performance as they could if clean shaven.

As the result of government regulations which are requiring more stringent protection from exposure to materials considered toxic or injurious to health, a policy has been adopted by the plant, effective April 1, 1976, which requires those employees who are potentially subject to having to wear a respirator to be clean shaven in the seal area in order to be protected to the maximum degree. A 3/4" clean shaven band in the seal area should satisfy this requirement.

A survey of the plant revealed that the following groups will be affected by this policy:

- Operations: All operating personnel.
- Maintenance: All personnel who may work in field areas and operating units.
- Distribution: Marine Terminal - All
In-Plant Distribution - All
- Others: Safety and Fire Protection Department
Emergency and Rescue Squads
Plant-Wide Organizations
Energy Systems
Laboratories - By job demands, e.g., certain jobs handling toxic materials or requiring entering production units.
Stores - By job demands.
Managerial and Technical Staffs - All who enter production units.
PLANT Engineering - All who enter production units.

This list is believed to be complete, but if a question arises please call the Safety Department at Extension ~~450~~ 5143.

UCC 094691

The following information is offered as a guide:

<u>Beards</u>	<u>Small Vandyke</u> or <u>Large Vandyke</u> type beards are usually acceptable if properly trimmed. <u>Full short</u> or <u>full long</u> beards are not acceptable. <i>Leaving the seal area clear.</i>
<u>Sideburns</u>	<u>Short</u> or <u>medium</u> sideburns, if not thick or bushy, are acceptable. Long or <u>Prince Albert</u> type sideburns are unacceptable.

Pictures of these beards and sideburns are shown on the attached illustrations.

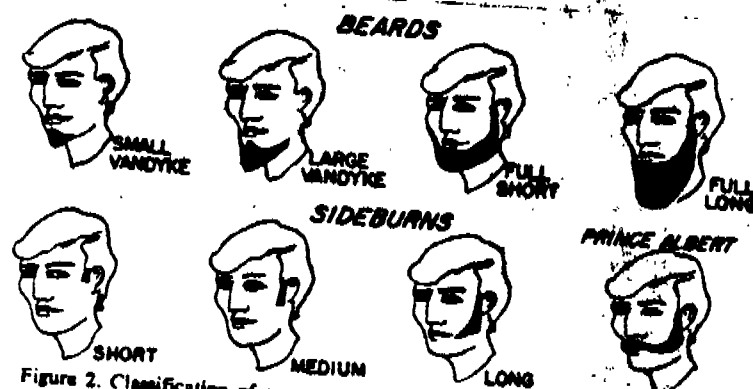


Figure 2. Classification of mustaches, beards and sideburns.

3M BRAND VINYL CHLORIDE RESPIRATOR

#8716

COMFORTABLE,
ECONOMICAL,
DEPENDABLE...
SIGNALS END OF
SERVICE

The 3M Brand Vinyl Chloride Respirator No. 8716 offers a unique combination of comfort, economy, and dependability features that benefit both employer and worker. A valveless, half-mask respirator, it's a major breakthrough in vinyl chloride respiratory protection.

• DEPENDABLE PROTECTION

Specifically designed to protect the worker in atmospheric conditions containing up to 10 parts per million (ppm) of Vinyl Chloride Monomer. Pliable construction molds to facial contours. Snug, comfortable fit.



• END-OF-SERVICE LIFE INDICATOR

Colored granules visible in the respirator cartridge change from purple to brown signaling need for respirator replacement. The end of service life indicator changes color prior to Vinyl Chloride Monomer breakthrough reaching 1 ppm., assuring continued worker health and safety.

• CLEAR VISION

Workers can see what they're doing and where they're going. The unique design permits glasses and goggles to be worn easily. Respirator is designed to rest low on the nose.

• BUILT-IN CARTRIDGE

The chemical cartridge is built-in to eliminate accidental cartridge switching. Assures proper protection continuously for the life of the respirator.

• LIGHTWEIGHT

8716 weighs only 8.5 ounces. Worker comfort helps assure continued respirator use even for extended periods.

• SECURE FIT

Respirator fits a wide range of facial shapes and sizes. Headbands can be readily adjusted for individual comfort and protection. No need to buy and stock more than one size.



• EASY BREATHING

Advanced chemical cartridge design of the half-mask Vinyl Chloride Respirator makes breathing easy.

• MAINTENANCE FREE ECONOMY

The 8716 eliminates time and cost for maintenance. The worker merely discards the respirator when the end-of-service life indicator changes color (brown). Also reduces costly inventory parts.

• BACKED BY MORE THAN A DECADE OF RESEARCH

8716 is backed by more than a decade of 3M research, development and manufacturing of innovative respirators for industry.

3M
COMPANY

UCC 094694

#8716 Respirator Fitting Instructions

1.



Place the bottom strap around the head just below the ears. Untwist the strap.

2.



Place the top strap around the head above the ears. Untwist the strap.

3.



Position the facepiece low on the face and tighten each strap.

- a. Grasp buckle with left hand. Hold away from hair.
- b. Pull strap through buckle with right hand.

4.



Tension in the straps may be decreased without removing the respirator.

- a. Grasp buckle in right hand and push out on flat surface of buckle.

- b. Pull strap back through buckle with left hand.

5.



After putting on the respirator, the seal of the rubber facepiece must be tested prior to entering a contaminated atmosphere.

- a. Cover the front of respirator with the hand, a piece of paper or cardboard, etc.

NOTE: Be careful not to disturb the position of the facepiece.

- b. Exhale sharply. A positive pressure should be felt inside the facepiece. If air leakage is detected, adjust the position of the facepiece on the face and/or adjust the tension in the straps. Retest the seal. Repeat this procedure until the facepiece is sealed properly.

The narrow, upper portion of the facepiece should cover and rest low on the nose. The wide, lower portion of the facepiece should be on the chin.

#8716 USE INSTRUCTIONS

IMPORTANT: The #8716 is designed for protection only against Vinyl Chloride Monomer in concentrations up to 10 ppm. Life of respirator depends on concentration of vapor and activity of the wearer. The respirator should be replaced: 1) as soon as the entire end-of-service-life indicator turns brown colored or 2) wearer senses any vapor or gas odor or irritation. This respirator must not be worn when atmospheric concentrations of contaminants are unknown or immediately dangerous to life or health. Before using an industrial hygienist should determine the suitability of this product for any intended use.

IMPORTANT NOTICE TO PURCHASER

THE FOLLOWING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE. 3M OH&SP products sold will meet the physical standards and properties set forth in the applicable product specification data sheets issued by 3M. 3M's only obligation under this warranty shall be to replace such quantity of 3M Safety Products proved to be defectively manufactured by failing to meet the aforementioned specification data sheets, and to be responsible for any third party personal injuries directly caused by said defects. Except as provided above, 3M shall not be liable or responsible for any loss, damage, or liability, direct, indirect, incidental, special or consequential, arising out of the sale, use or misuse of, or the inability to use products by the user.

ANOTHER STEP TOWARDS BETTER OCCUPATIONAL HEALTH AND SAFETY

Occupational Health & Safety Products **3M**

3M CENTER, SAINT LOUIS, MISSOURI 63166

UCC 094695

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
WASHINGTON, D.C. 20210

19 JAN 1977



Office of the Assistant Secretary

- 2 -

MEMORANDUM FOR REGIONAL ADMINISTRATORS AND AREA DIRECTORS

Thru : Donald E. MacKenzie, Acting Director, Field Coordination

From : Morton Corn, Assistant Secretary of Labor Morton Co.

Subject: Use of the 3M Cartridge Respirator (Model 3716)
in Vinyl Chloride Atmospheres

1. Purpose. To provide guidance concerning the enforcement of Section 1910.1017(g)(4) as it relates to use of the 3M cartridge respirator.

2. Directives Affected. None

3. Background. Section 1910.1017(g)(4) requires that respirators used in vinyl chloride atmospheres be approved by NIOSH. To date no respirators for 10 ppm vinyl chloride or less have been approved. The 3M Company has developed a disposable cartridge respirator with a service life indicator for use in atmospheres of 10 ppm vinyl chloride or less. Because this respirator is not equipped with an exhalation valve, it cannot be tested by NIOSH, which requires an exhalation valve; until NIOSH's procedures are revised.

In the interim, test data collected by the 3M Company concerning this respirator has been studied and OSHA has conducted its own fit tests at the Los Alamos Scientific Laboratory.

Based on the information from the tests which have been conducted, it has been determined that the 3M disposable cartridge respirator is acceptable for 8-hour use in atmospheres of up to 10 ppm vinyl chloride.

As with any respirator, the degree of protection provided depends heavily on the adequacy of the respirator program, including the fit of the respirator and enforcement of the service life requirements. Therefore, the requirements of Section 1910.134, which contains the OSHA standards for a respiratory protection program shall be adhered to. Particular attention should be paid to the applicable requirements of Sections 1910.134(e) and (f).

In addition, the employer should maintain a written record of employees using the respirator and the amount of time that each respirator is worn.

4. Action. Citations should be issued under Section 1910.134 as necessary. However, until final certification by NIOSH, the use of the 3M respirator (Model 3716) in vinyl chloride atmospheres of 10 ppm or less for periods not exceeding two hours per respirator shall be cited as de minimus.

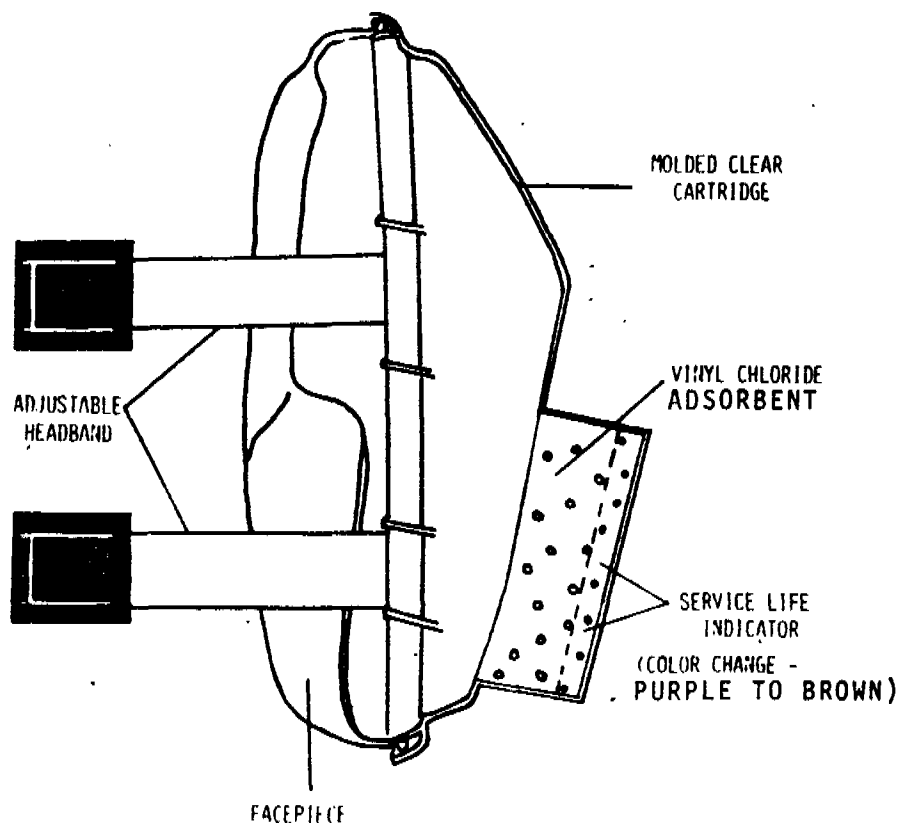
5. Effective date. This directive will become effective immediately and will remain in effect until NIOSH tests the respirator and issues its conclusions, or until revised or modified by OSHA.

UCC 094696

PRODUCT DESCRIPTION

The 3M Brand Vinyl Chloride Respirator #8716 is designed for employee respiratory protection against 10 ppm or less of vinyl chloride monomer per 30 CFR 11. A diagram of the half mask vinyl chloride respirator, part #8716, is shown in Figure 1.

FIGURE 1
3M COMPANY
#8716 VINYL CHLORIDE RESPIRATOR



UCC 094697

The #8716 Vinyl Chloride Respirator is uniquely different from all other products presently approved and used for protection from vinyl chloride. A half mask respirator weighing 240 grams, the inhalation breathing resistance of this respirator is much less than that of canister type respirators which weigh approximately 2800 grams. The visibility with the #8716 is greater than with a full facepiece and putting the respirator on is simple. The protection afforded the user of the #8716 in concentrations up to 10 ppm is greater than existing approved products due to the end of service life indicator on each respirator. Worker comfort is expected to be significantly improved with the #8716 compared to existing products and, therefore, worker acceptance significantly improved.

The #8716 Vinyl Chloride Respirator is a totally disposable respirator. Therefore, no maintenance programs are needed and the worker is insured that he is not inhaling vinyl chloride monomer due to deterioration of valve or facepiece material. When the indicator has changed color the respirator is disposed of in accordance with standard procedures for vinyl chloride contaminated materials and a new respirator is taken.

UCC 094698

To. Bab

Date 2/77 Time 2:25 pm

WHILE YOU WERE OUT

Mr. Troutman

of J. Charleston

Phone 2209 re:

TELEPHONED		PLEASE CALL HIM	☒
CALLED TO SEE YOU		WILL CALL AGAIN	
RETURNED YOUR CALL		RUSH	

Message after VC/Conister
that he has - would
you be interested?

CT-1406

UCC 094699