

**MATERIAL SAFETY DATA SHEET BE-12, BE-12L, BE-12B, BE-12LB 09/10/10**

[3M BE-12LB-50 Tyvek Head Cover](#)

[3M BE-12-50 Tychem Head Cover](#)

[3M BE-12B-50 Tychem Head Cover](#)

**Material Safety Data Sheet**

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** BE-12, BE-12L, BE-12B, BE-12LB  
**MANUFACTURER:** 3M  
**DIVISION:** Occupational Health & Environ. Safety

**Issue Date:** 09/10/10  
**Supercedes Date:** 08/16/05

**Document Group:** 20-3368-6

**Product Use:**

Intended Use: Tychem(r) QC offers splash protection against many inorganic acids, bases and other liquid chemicals such as pesticides.

**SECTION 2: INGREDIENTS**

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Face Seal	Unknown	20 - 35
Faceshield	Unknown	15 - 30
Ait inlet Assembly	Unknown	10 - 25
Headband	Unknown	10 - 20
Sweatband	Unknown	5 - 10
Neckband/Topstrap Elastic	Unknown	5 - 10
Synthetic Rubber/faceseal	Unknown	0 - 5

**SECTION 3: HAZARDS IDENTIFICATION**

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### 3.1 EMERGENCY OVERVIEW

**Odor, Color, Grade:** The 3M BE-12 Tychem(r) QC Head Cover is a loose fitting, positive pressure respiratory inlet covering. These loose fitting face pieces, when combined with an appropriate powered air purifying blower unit (PAPR), are designed to provide respiratory protection

**General Physical Form:** Solid

**Immediate health, physical, and environmental hazards:** The environmental properties of this product present a low environmental hazard. This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

No health effects are expected.

**Skin Contact:**

No health effects are expected.

**Inhalation:**

No health effects are expected.

**Ingestion:**

No health effects are expected.

### 3.3 POTENTIAL ENVIRONMENTAL EFFECTS

Not determined.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** No need for first aid is anticipated.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention. No need for first aid is anticipated.

**Inhalation:** No need for first aid is anticipated.

**If Swallowed:** No need for first aid is anticipated.

## SECTION 5: FIRE FIGHTING MEASURES

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## 5.1 FLAMMABLE PROPERTIES

Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>

## 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

## 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Not applicable. No unusual fire or explosion hazards are anticipated.

**Note:** See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions

Not applicable.

### Environmental procedures

Not applicable.

### Clean-up methods

Not applicable.

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2 STORAGE

Not applicable.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Not applicable.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

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**8.2.1 Eye/Face Protection**

Not applicable.

**8.2.2 Skin Protection**

Not applicable.

**8.2.3 Respiratory Protection**

Not applicable.

**8.2.4 Prevention of Swallowing**

Not applicable.

**8.3 EXPOSURE GUIDELINES**

None Established

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Odor, Color, Grade:**

The 3M BE-12 Tychem(r) QC Head Cover is a loose fitting, positive pressure respiratory inlet covering. These loose fitting face pieces, when combined with an appropriate powered air purifying blower unit (PAPR), are designed to provide respiratory protection

**General Physical Form:**

Solid

**Autoignition temperature**

*Not Applicable*

**Flash Point**

*Not Applicable*

**Flammable Limits - LEL**

*Not Applicable*

**Flammable Limits - UEL**

*Not Applicable*

**Boiling point**

*Not Applicable*

**Density**

*Not Applicable*

**Vapor Density**

*Not Applicable*

**Vapor Pressure**

*Not Applicable*

**Specific Gravity**

*Not Applicable*

**pH**

*Not Applicable*

**Melting point**

*Not Applicable*

**Solubility in Water**

Nil

**Evaporation rate**

*Not Applicable*

**Kow - Oct/Water partition coef**

*No Data Available*

**Percent volatile**

*Not Applicable*

**Viscosity**

*Not Applicable*

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable.

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**Materials and Conditions to Avoid:**

**10.1 Conditions to avoid**

None known

**10.2 Materials to avoid**

None known

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Hazardous Decomposition or By-Products**

**Substance**

Carbon monoxide  
Carbon dioxide

**Condition**

Oxidation, heat or reaction  
Oxidation, heat or reaction

**Hazardous Decomposition:** Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

**SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION**

Not applicable.

**CHEMICAL FATE INFORMATION**

Not applicable.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator. As a disposal alternative, incinerate in an industrial or commercial facility. Dispose of used respirator consistent with the substance for which the respirator was used.

Since regulations vary, consult applicable regulations or authorities before disposal.

**SECTION 14: TRANSPORT INFORMATION**

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**ID Number(s):**

70-0708-8492-2, 70-0708-8735-4, 70-0708-8736-2, 78-8124-0090-7, 78-8124-0091-5, 78-8124-0092-3, 78-8124-0093-1

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

### STATE REGULATIONS

Contact 3M for more information.

### CHEMICAL INVENTORIES

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

### INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

**NFPA Hazard Classification**

Health: 0 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are

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presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Revision Changes:**

- Copyright was modified.
- Section 14: Transportation legal text was modified.
- Section 9: Property description for optional properties was modified.
- Section 1: Initial issue message was modified.
- Section 14: ID Number Heading Template 1 was added.
- Section 14: ID Number(s) Template 1 was added.
- Section 2: Ingredient table was added.
- Section 8: Exposure guidelines information - none - was added.
- Section 6: Environmental procedures heading was added.
- Section 6: Personal precautions heading was added.
- Section 10.1 Conditions to avoid heading was added.
- Section 10.2 Materials to avoid heading was added.
- Section 6: Personal precautions information was added.
- Section 6: Environmental procedures information was added.
- Section 6: Methods for cleaning up information was added.
- Section 10: Materials to avoid physical property was added.
- Section 10: Conditions to avoid physical property was added.
- Section 6: Clean-up methods heading was added.
- Section 6: Release measures information was deleted.
- Section 6: Release measures heading was deleted.
- Section 10: Materials and conditions to avoid physical property was deleted.

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