Material Safety Data Sheet

Copyright, 2013, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

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: 3M 8515 N95 Light Welding Respirator
MANUFACTURER: 3M
DIVISION: Personal Safety Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 04/12/13
Supercedes Date: 01/11/13
Document Group: 09-4363-9

Product Use:
Intended Use: Respiratory Protection

SECTION 2: INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene</td>
<td>Unknown</td>
<td>40 - 70</td>
</tr>
<tr>
<td>Polyester</td>
<td>Unknown</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Polyisoprene, yellow</td>
<td>Unknown</td>
<td>7 - 17</td>
</tr>
<tr>
<td>Flame Retardant</td>
<td>Unknown</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Aluminum</td>
<td>Unknown</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Acrylic Resin</td>
<td>Unknown</td>
<td>2 - 8</td>
</tr>
<tr>
<td>Steel, Cadmium free</td>
<td>Unknown</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Silicone emulsion</td>
<td>Unknown</td>
<td>0 - 1</td>
</tr>
<tr>
<td>Black colorant</td>
<td>Unknown</td>
<td>0 - 1</td>
</tr>
<tr>
<td>Ethylene/Acrylic Acid Copolymer</td>
<td>Unknown</td>
<td>0 - 1</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION
3.1 EMERGENCY OVERVIEW

Specific Physical Form:  Non-Woven Material
Odor, Color, Grade:  Black valved respirator. No odor.
General Physical Form:  Solid
Immediate health, physical, and environmental hazards:  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.

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:  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

5.1 FLAMMABLE PROPERTIES

Autoignition temperature  Not Applicable
Flash Point  Not Applicable
Flammable Limits(LEL)  Not Applicable
Flammable Limits(UEL)  Not Applicable
OSHA Flammability Classification:  Not Applicable

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

6.1 Personal precautions, protective equipment and emergency procedures
Not applicable.

6.2 Environmental precautions
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/PERSOAL PROTECTION

8.1 ENGINEERING CONTROLS
Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

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 an expected route of exposure.
8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Specific Physical Form: Non-Woven Material
- Odor, Color, Grade: Black valved respirator. No odor.
- 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: No Data Available
- Solubility In Water: Not Applicable
- Evaporation rate: Not Applicable
- Volatile Organic Compounds: Not Applicable
- Kow - Oct/Water partition coef: No Data Available
- Percent volatile: Not Applicable
- VOC Less H2O & Exempt Solvents: Not Applicable
- Viscosity: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aldehydes</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Hydrocarbons</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Methane</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>Not Specified</td>
</tr>
</tbody>
</table>
Carbon dioxide Not Specified
Ketones Not Specified
Toxic Vapor, Gas, Particulate Not Specified

**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 determined. Not applicable.

**CHEMICAL FATE INFORMATION**

Not determined. Not applicable.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Reclaim if feasible. Dispose of waste product in a sanitary landfill. Dispose of used product by the same method as recommended for the disposal of the substance the respirator was used for.

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

**SECTION 14: TRANSPORT INFORMATION**

**ID Number(s):**
70-0708-9002-8, 70-0716-2255-2

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: 1  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 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:
Section 1: Division name was modified.
Section 14: ID Number(s) Template 1 was modified.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M

3M USA MSDSs are available at www.3M.com