

# **Material Safety Data Sheet**

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# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Tarni-Shield TM Protector Products

**MANUFACTURER:** 3M

**DIVISION:** SMD - Energy Markets - Filtration

**ADDRESS:** 3M Center

St. Paul, MN 55144-1000

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

**Issue Date:** 08/14/2006 **Supercedes Date:** 08/14/2006

**Document Group:** 16-5479-7

**Product Use:** 

Intended Use: Corrosion Inhibitor

# **SECTION 2: INGREDIENTS**

| <u>Ingredient</u>             | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|-------------------------------|-------------------|----------------|
| Cellulose Pulp                | 65996-61-4        | 38 - 65        |
| Activated Carbon              | 7440-44-0         | 19 - 50        |
| Nitrile Latex                 | Unknown           | 4 - 10         |
| Sodium Aluminum Oxide         | 11138-49-1        | < 5            |
| Melamine - Formaldehyde Resin | Unknown           | < 5            |
| Aluminum Sulfate              | 10043-01-3        | < 5            |

# **SECTION 3: HAZARDS IDENTIFICATION**

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Roll or Strips of Carbon Paper **Odor, Color, Grade:** Dark Gray Paper/ no odor

General Physical Form: Solid

Immediate health, physical, and environmental hazards: May cause allergic skin reaction.

#### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:** 

#### 3M MATERIAL SAFETY DATA SHEET Tarni-Shield TM Protector Products 08/14/2006

No health effects are expected.

#### **Skin Contact:**

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### **Inhalation:**

No health effects are expected.

#### **Ingestion:**

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

## **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:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

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

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

## 5.1 FLAMMABLE PROPERTIES

Autoignition temperatureNo Data AvailableFlash PointNot ApplicableFlammable Limits - LELNot ApplicableFlammable Limits - UELNot Applicable

## 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

## 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.

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

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Not applicable.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

#### 7.1 HANDLING

Keep out of the reach of children. Avoid prolonged or repeated skin contact. Avoid eye contact with dust or airborne particles.

#### 7.2 STORAGE

Store under normal warehouse conditions.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 ENGINEERING CONTROLS

Not applicable.

# **8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

#### 8.2.1 Eye/Face Protection

As a good industrial hygiene practice:

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields.

### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Neoprene, Nitrile Rubber.

#### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

### 8.2.4 Prevention of Swallowing

Do not ingest.

## 8.3 EXPOSURE GUIDELINES

| <u>Ingredient</u>       | <b>Authority</b> | <b>Type</b> | <u>Limit</u> | <b>Additional Information</b> |
|-------------------------|------------------|-------------|--------------|-------------------------------|
| ALUMINUM, SOLUBLE SALTS | ACGIH            | TWA, as Al  | 2 mg/m3      |                               |
| ALUMINUM, SOLUBLE SALTS | OSHA             | TWA, as Al  | 2 mg/m3      | Table Z-1A                    |
| Activated Carbon        | CMRG             | TWA         | 3 fiber/cc   |                               |

## SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Specific Physical Form:**Roll or Strips of Carbon Paper **Odor, Color, Grade:**Dark Gray Paper/ no odor

General Physical Form: Solid

Autoignition temperatureNo Data AvailableFlash PointNot ApplicableFlammable Limits - LELNot ApplicableFlammable Limits - UELNot ApplicableBoiling pointNot Applicable

Vapor Density Not Applicable

Vapor Pressure Not Applicable

Specific GravityNo Data AvailablepHNot ApplicableMelting pointNot ApplicableSolubility In WaterNot Applicable

**Evaporation rate Volatile Organic Compounds**Not Applicable
Not Applicable

Percent volatile Nil

VOC Less H2O & Exempt Solvents

Not Applicable
Not Applicable

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

# **Hazardous Decomposition or By-Products**

**Substance** Condition

Carbon monoxide During Combustion
Carbon dioxide During Combustion

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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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:** Dispose of waste product in a sanitary landfill. Incinerate in an industrial or commercial facility in the presence of a combustible material.

EPA Hazardous Waste Number (RCRA): Not regulated

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

# **SECTION 14:TRANSPORT INFORMATION**

## **ID** Number(s):

70-0708-1598-3, 70-0708-1599-1, 70-0708-1600-7, 70-0708-1614-8, 70-0708-1615-5

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

# **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 - Yes Delayed Hazard - Yes

#### STATE REGULATIONS

Contact 3M for more information.

#### CHEMICAL INVENTORIES

Contact 3M for more information.

**Additional Information:** dust may occur during conversion of roll material.

#### 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: 2 Flammability: 0 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.

#### **HMIS Hazard Classification**

**Health:** 2 Flammability: 0 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS(r)) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA).

#### **Revision Changes:**

Section 1: Product use information was modified.

Sections 3 and 9: Specific physical form information was modified.

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

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### October 22, 2013

#### Re: Response to Request for Composition Information on Candidate List

This letter is in response to your request for composition information on Candidate List Substances related to Art. 59.1 of Regulation No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as updated by ECHA on 19 December 2012 (http://echa.europa.eu/chem\_data/authorisation\_process/candidate\_list\_table\_en.asp), and

including the Registry of submitted SVHC Intentions, as of 20 June 2013: (http://echa.europa.eu/registry-of-submitted-svhc-intentions); and including the substances proposed in Sept 2013 for addition to the Candidate List in Dec 2013

(7 substances, found at <a href="http://echa.europa.eu/registry-of-submitted-svhc-intentions">http://echa.europa.eu/registry-of-submitted-svhc-intentions</a> <a href="listed">listed</a> with "Submission Date" of 05-Aug-2013).

You requested information regarding the following 3M Purification Inc. product(s):

| 3M ID          | 3M PI ID | Description  |
|----------------|----------|--|
| 70-0708-1599-1 | T111     | TARNI-SHIELD™ PROTECTOR PATCHES                        |
|                |          | PRINTED 2"X2" 4000/CS                                  |
| 70-0708-1600-7 | T122     | TARNI-SHIELD™ PROTECTOR STRIPS PRINTED                 |
|                |          | 2"X5" 1000/CS  |
| 70-0708-1598-3 | T125     | TARNI-SHIELD™ PROTECTOR STRIPS PRINTED                 |
|                |          | 2"X5" 1000/CS  |
| 70-0708-1615-5 | T280     | TARNI-SHIELD <sup>TM</sup> PRINTED 8-1/4 INCHES X 1000 |
|                |          | YARDS  |

Due to the wide variation in content and format of such request forms, 3M Purification Inc. provides letters, such as this one, in response to requests for regulatory information.

On behalf of 3M Company, to the best of 3M's knowledge, the chemicals from the Candidate List as amended 12 December 2012 and the Candidate List as amended 05 Aug 2013 are not present at or above 0.1% in the product(s) listed above.

If a Material Safety Data Sheet (MSDS) is available for this product, the MSDS document number is shown above and the document may be obtained at <a href="www.3M.com">www.3M.com</a>. Section 2 of the MSDS lists the product ingredients and forms the basis for the composition review. The MSDS should be reviewed for additional safety, health, environmental and regulatory information.

In preparing this response, 3M Purification Inc. has relied in part on information provided by 3M suppliers.

As I understand it, you are not requesting information about the packaging for the above-references products.

I trust the above information is responsive to your request.

Please contact me if there are any additional questions.

Sincerely,

Regulatory Affairs Specialist 3M Purification Inc

3130 Lexington Ave S Eagan, MN 55121-2240

Son Real

Office: 651 789 3428 Fax: 651 450 5182

 $\underline{\mathsf{lgrassl@mmm.com}} \mid \underline{\mathsf{www.3M.com}}$