



# SAFETY DATA SHEET

Issue Date 06-Feb-2018

Revision Date 21-Feb-2018

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** RF-149W

### Other means of identification

**Product Code** 9RF-149W-A1-WY

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** For industrial use only.

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Address**  
Worthen Industries, Inc  
3 E. Spit Brook Road  
Nashua, NH 03060

**Manufacturer Address**  
Worthen Coated Fabrics  
1125 41st Street SE  
Grand Rapids, MI 49508

### Emergency telephone number

**Company Phone Number** 1-800-WORTHEN (967-8436)

**Emergency Telephone** Chemtrec 1-800-424-9300  
Chemtrec (International): +1 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

#### **Emergency Overview**

**Appearance** White coated fabric

**Physical state** Solid

**Odor** Negligible

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

Very toxic to aquatic life.

**Unknown acute toxicity**

96.97% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Article**

This material is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazardous ingredients of this product are encapsulated, therefore the material is not GHS classified for health and environmental hazards as exposure is not expected.

**Common name** Coated Fabric.

Chemical name	CAS No.	Weight-%	Trade Secret
Limestone	1317-65-3	7 - 13	*
Titanium Dioxide	13463-67-7	5 - 10	*
Amorphous Precipitated Silica	112926-00-8	0.1 - 1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

**General advice** No hazards which require special first aid measures.

**Eye contact** Not an expected route of exposure.

**Skin contact** Not an expected route of exposure.

**Inhalation** Not an expected route of exposure.

**Ingestion** Not an expected route of exposure.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** No known medical conditions aggravated by specific product. Individuals with sensitive airways (e.g., asthmatics) may react to airborne products.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Hazardous combustion products** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Phosphorus oxides, Nitrogen oxides (NO<sub>x</sub>), Smoke and Soot

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

### Environmental precautions

**Environmental precautions** See Section 13 for additional disposal information.

### Methods and material for containment and cleaning up

**Methods for containment** Normal housekeeping for solid material.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep in a dry, cool and well-ventilated place. Store in accordance with the particular national regulations.

**Packaging materials** No information available.

**Incompatible materials** No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Limestone 1317-65-3	-	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Amorphous Precipitated Silica 112926-00-8	-	(vacated) TWA: 6 mg/m <sup>3</sup> TWA: 20 mppcf : (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA	-

NIOSH IDLH *Immediately Dangerous to Life or Health*

**Other Information** - Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

### Appropriate engineering controls

**Engineering Controls** Eyewash stations. Ventilation systems.

### Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Use chemical safety glasses, goggles, or face shields for protection. Eye wash stations should be in the immediate work area.
<b>Skin and body protection</b>	Impermeable chemical handling gloves should be worn. Use impermeable clothing whenever possible to prevent skin contact.
<b>Respiratory protection</b>	Ensure adequate ventilation, especially in confined areas. Recirculated air should be filtered to remove respirable dust. Provide for appropriate exhaust ventilation and dust collection at processing machinery. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>General Hygiene Considerations</b>	Handle all chemicals with caution and care. Always wash hands before eating, smoking, or using toilet facilities. As with all chemicals, caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Odor</b>	Negligible
<b>Appearance</b>	White coated fabric	<b>Odor threshold</b>	No information available
<b>Color</b>	White		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	No information available		
<b>Melting point / freezing point</b>	No information available		
<b>Boiling point / boiling range</b>	No information available		
<b>Flash point</b>	No information available		
<b>Evaporation rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit:</b>	No information available		
<b>Lower flammability limit:</b>	No information available		
<b>Vapor pressure</b>	No information available	at 20°C (68°F)	
<b>Vapor density</b>	No information available	Heavier than air	
<b>Relative density</b>	1.1		
<b>Water solubility</b>	No information available		
<b>Solubility in other solvents</b>	No information available		
<b>Partition coefficient</b>	No information available		
<b>Autoignition temperature</b>	No information available		
<b>Decomposition temperature</b>	No information available		
<b>Kinematic viscosity</b>	No information available		
<b>Dynamic viscosity</b>	No information available		
<b>Explosive properties</b>	No information available		
<b>Oxidizing properties</b>	No information available		
<b><u>Other Information</u></b>			
<b>Softening point</b>	No information available		
<b>Molecular weight</b>	No information available		
<b>VOC Content (%)</b>	No information available		
<b>Liquid Density</b>	No information available		
<b>Bulk density</b>	No information available		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable

No data available

**Chemical stability**

Stable under recommended storage conditions

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

No information available.

**Hazardous Decomposition Products**

No information available.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

Product does not present an acute toxicity hazard based on known or supplied information

**Inhalation**

Exposure to dust particles generated from dried dispersion may cause irritation of the respiratory tract.

**Eye contact**

Contact with eyes may cause irritation.

**Skin contact**

No data available.

**Ingestion**

No data available.

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Titanium Dioxide 13463-67-7	> 10000 mg/kg ( Rat )	-	-

**Information on toxicological effects**

**Symptoms**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation**

No information available.

**Serious eye damage/eye irritation**

No information available.

**Irritation**

No information available.

**Corrosivity**

No information available.

**Sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen. The listing of Titanium Dioxide and Amorphous Precipitated are for "airborne, unbound particles of respirable size." These listings are not applicable when it remains bound within a product matrix.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium Dioxide 13463-67-7	-	Group 2B	-	X
Amorphous Precipitated Silica 112926-00-8	-	Group 3	-	-

IARC (International Agency for Research on Cancer)  
 Group 2B - Possibly Carcinogenic to Humans  
 Group 3 - Not Classifiable as to Carcinogenicity in Humans  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organ Effects** lungs, Respiratory system irritation.  
**Aspiration hazard** No information available.  
  
**Numerical measures of toxicity** No information available

The following values are calculated based on chapter 3.1 of the GHS document . mg/kg mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic life

This product may contain components with unknown hazards to the aquatic environment.

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes**

When disposing of unused contents the preferred options are to send to a licensed reclaimer or to permitted incinerators. Any disposal practice must be in compliance with federal, state and local regulations. Do not dump into sewers, on the ground, or into any body of water.

**Contaminated packaging**

Do not reuse container. Dispose of in accordance with federal, state and local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

**14. TRANSPORT INFORMATION**

**DOT**

Not Regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA Complies  
DSL/NDSL Complies

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

### US State Regulations

#### **California Proposition 65**

WARNING! This product contains, or may contain, a substance(s) known to the state of California to cause cancer and/or reproductive harm.

Chemical name	California Proposition 65
Titanium Dioxide - 13463-67-7	Carcinogen
Silicon Dioxide - 14808-60-7	Carcinogen
Formaldehyde - 50-00-0	Carcinogen
Ethyl acrylate - 140-88-5	Carcinogen
Acrylamide - 79-06-1	Carcinogen Developmental Male Reproductive
Acrylonitrile - 107-13-1	Carcinogen
1,4-Dioxane - 123-91-1	Carcinogen
Acetaldehyde - 75-07-0	Carcinogen
Ethylene oxide - 75-21-8	Carcinogen Developmental Female Reproductive Male Reproductive

#### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Limestone 1317-65-3	X	X	X
Titanium Dioxide 13463-67-7	X	X	X
2-Amino-2-methyl-1-propanol 124-68-5	X	X	X

Amorphous Precipitated Silica 112926-00-8	X	X	X
Amorphous Silica 7631-86-9	X	X	X
Ammonia 7664-41-7	X	X	X
Silicon Dioxide 14808-60-7	X	X	X
Propylene Glycol 57-55-6	X	-	X
Formaldehyde 50-00-0	X	X	X
C.I. Pigment Blue 15 147-14-8	X	-	X
Ethyl acrylate 140-88-5	X	X	X
N,N-Dimethylformamide 68-12-2	X	X	X
Acrylamide 79-06-1	X	X	X
Ammonium hydroxide 1336-21-6	X	X	X
Acrylonitrile 107-13-1	X	X	X
1,4-Dioxane 123-91-1	X	X	X
Acetaldehyde 75-07-0	X	X	X
Ethylene oxide 75-21-8	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**HMIS**                      Health hazards 1                      Flammability 0                      Physical hazards 0                      Personal protection X

**Prepared By**    Worthen Industries, Inc.  
**Issue Date**    06-Feb-2018  
**Revision Date**    21-Feb-2018  
**Revision Note**  
 No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**