



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 (CO₂), Phosphorus oxides, Nitrogen oxides (NO_x), 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 ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Titanium Dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³
Amorphous Precipitated Silica 112926-00-8	-	(vacated) TWA: 6 mg/m ³ TWA: 20 mppcf : (80)/(% SiO ₂) mg/m ³ 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

Eye/face protection	Use chemical safety glasses, goggles, or face shields for protection. Eye wash stations should be in the immediate work area.
Skin and body protection	Impermeable chemical handling gloves should be worn. Use impermeable clothing whenever possible to prevent skin contact.
Respiratory protection	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.
General Hygiene Considerations	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

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