



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

SECTION 1: MANUFACTURER IDENTIFICATION

Manufacturer's Name: American WeatherStar
Address: PO Box 6256
Mobile AL 36660

Emergency Telephone: INFOTRAC— 800/535-5053

PRODUCT NAME: Rust Prime 912

Chemical Family: Acrylic Polymer in Water

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview

WARNING! Color: Red Form: liquid Odor: Ammonia.

May cause eye, skin, and respiratory tract irritation. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Harmful if swallowed. May affect nervous system. May cause kidney damage. May cause liver damage.

Potential Health Effects

Primary Routes of Entry: Skin Contact, Eye Contact, Ingestion, Inhalation

Medical Conditions Aggravated by Skin disorders, Respiratory disorders, Eye disorders

Exposure:

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation

Acute Inhalation

For Component: Calcium Silicate

May cause mechanical irritation.

For Component: Talc (non-asbestos form)

May cause mechanical irritation.

For Component: 2-Butoxyethanol

Expected to be toxic by inhalation. May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion.

Chronic Inhalation

For Component: Talc (non-asbestos form)



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

May cause pulmonary fibrosis which may lead to severe and permanent lung damage, possibly resulting in disability or death. Prolonged inhalation of excessive levels of dust may cause pneumoconiosis.

Skin

Acute Skin

For Component: Talc (non-asbestos form)

May cause mechanical irritation.

For Component: 2-Butoxyethanol

Toxic by skin absorption. May cause irritation with symptoms of reddening and itching.

For Component: Red Pigment

Causes irritation with symptoms of reddening, itching, and swelling.

Chronic Skin

For Component: 2-Butoxyethanol

May cause defatting of the skin with symptoms of dryness and cracking. Chronic exposure may cause symptoms similar to those described in chronic inhalation.

Eye

Acute Eye

For Component: Calcium Silicate

May cause irritation with symptoms of reddening, tearing and stinging.

For Component: Talc (non-asbestos form)

May cause mechanical irritation.

For Component: 2-Butoxyethanol

Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

For Component: Red Pigment

Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

Acute Ingestion

For Component: 2-Butoxyethanol

Toxic by ingestion. Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea. May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion.

Chronic Ingestion

For Component: 2-Butoxyethanol

May cause blood disorders. May cause kidney damage. May cause liver damage.



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Weight %	Components	CAS-No.
10 - 20%	Calcium Silicate	13983-17-0
3 - 7%	Talc (non-asbestos form)	14807-96-6
1 - 5%	2-Butoxyethanol	111-76-2
1 - 5%	Zinc Compound(s)	
1 - 5%	Red Pigment CAS# is a trade secret.	

SECTION 4: FIRST AID MEASURES

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Inhalation

If inhaled, remove to fresh air. Get medical attention if irritation develops.

Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

All extinguishing media are suitable.

Special Fire Fighting Procedures

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

SECTION 7: HANDLING AND STORAGE

Storage Temperature:

minimum: 1 °C (33.8 °F)

maximum: 49 °C (120.2 °F)

Storage Period

6 Months

Handling/Storage Precautions

Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

Further Info on Storage Conditions

None known.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Talc (non-asbestos form) (14807-96-6)

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 2 mg/m³ (Respirable fraction.)The value is for particulate matter containing no asbestos and <1% crystalline silica.

US. ACGIH Threshold Limit Values

Hazard Designation: Group A4 Not classifiable as a human carcinogen.

2-Butoxyethanol (111-76-2)

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 20 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 50 ppm, 240 mg/m³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Skin designation: Can be absorbed through the skin.

US. ACGIH Threshold Limit Values

Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance to humans.



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hand Protection

Permeation resistant gloves.

Eye Protection

Splash proof goggles.

Skin and Body Protection

Wear cloth work clothing including long pants and long-sleeved shirts.

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Red Odor:
Ammonia pH:	Not Established
Freezing Point:	< 0 °C (< 32 °F)
Boiling Point/Range:	100 °C (212 °F) similar to water
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
Lower Explosion Limit:	not applicable
Upper Explosion Limit:	not applicable
Vapor Pressure:	17 mmHg @ 20 °C (68 °F) similar to water
Specific Gravity:	> 1.3



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

SECTION 10: STABILITY AND REACTIVITY

Hazardous Reactions

Hazardous polymerization does not occur.

Stability

Stable

Materials to Avoid

None known.

Hazardous Decomposition Products

By Thermal Decomposition: Acrylic monomers, other potentially toxic fumes

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data for Calcium Silicate Eye Irritation

Eye Irritation

Repeated Dose Toxicity

12 -24 m, Inhalation: LOAEL: 10 mg/m³, (Rat, male)

Mutagenicity

Genetic Toxicity in Vitro:

Bacterial - gene mutation assay: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Carcinogenicity

Rat, male, inhalation, 12 - 24 w,

No carcinogenic effects observed at the doses tested.

Toxicity Data for Talc (non-asbestos form)

Skin Irritation

Rabbit, No skin irritation

Eye Irritation

Rabbit, No eye irritation

Mutagenicity

Genetic Toxicity in Vitro:

Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium)

Genetic Toxicity in Vivo:

Dominant Lethal Assay: Negative results were reported in various in vivo studies. (rat,)



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

Developmental Toxicity/Teratogenicity

Rat, Female, Oral, Gestation, Daily, NOAEL (teratogenicity): 1,600 mg/kg, No Teratogenic effects observed at doses tested.

Rabbit, Female, Oral, Gestation, Daily, NOAEL (teratogenicity): 900 mg/kg, No Teratogenic effects observed at doses tested.

Toxicity Data for 2-Butoxyethanol

Acute Oral Toxicity

LD50: 470 mg/kg (rat) LD50: 300 mg/kg (rabbit)

Acute Inhalation Toxicity

LC50: 2.21 - 2.39 mg/l, 4 hrs (Rat)

Acute dermal toxicity

LD50: 220 mg/kg (rabbit)

Skin Irritation

Rabbit, Draize, Mild skin irritation

Eye Irritation

Rabbit, Draize, Moderate eye irritation

Sensitization

Dermal: non-sensitizer (Guinea pig, Maximisation Test (GPMT))

Dermal: non-sensitizer (Human, Patch Test)

Repeated Dose Toxicity

90 Days, inhalation: NOAEL: 0.121 mg/kg, (Rat, Male/Female, daily)

30 Days, inhalation: NOAEL: < 0.27 mg/kg, (Rat, Male/Female, daily)

90 Days, dermal: NOAEL: 150 mg/kg, (Rabbit, Male/Female, daily)

Mutagenicity

Genetic Toxicity in Vitro:

Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (mouse,)

Carcinogenicity

Mouse, Male/Female, inhalation, 2 years, daily



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

Animal experiments showed a statistically significant number of tumours.

Toxicity to Reproduction/Fertility

Other method, oral, daily, (Rat, Male/Female) NOAEL (parental): 304 mg/kg,

Reproductive effects have been observed in animal studies.

Two generation study, oral, (mouse, Male/Female) NOAEL (parental): 720 mg/kg, NOAEL (F1): < 720 mg/kg,

Developmental Toxicity/Teratogenicity

Rat, female, inhalation, gestation, daily, NOAEL (teratogenicity): 0.97 mg/kg, NOAEL (maternal): 0.24 mg/kg, Teratogenic effects seen only with maternal toxicity.

Rabbit, female, gestation, daily, NOAEL (teratogenicity): 0.97 mg/kg, NOAEL (maternal): 0.48 mg/kg,

Rat, Female, dermal, gestation, daily, NOAEL (teratogenicity): 5,400 mg/kg, NOAEL (maternal): < 1,800 mg/kg,

Toxicity Data for Red Pigment

Skin Irritation

Skin Irritation

Eye Irritation

Eye Irritation

SECTION 12: ECOLOGICAL INFORMATION

Ecological Data for Talc (non-asbestos form)

Biodegradation

Not readily biodegradable.

Biological Oxygen Demand (BOD)

0 mg/l

Chemical Oxygen Demand (COD)

0 mg/g

Bioaccumulation

Does not bioaccumulate.

Acute and Prolonged Toxicity to Fish

LC50: > 10,000 mg/l (Zebra fish (Brachydanio rerio), 24 hrs)

Ecological Data for 2-Butoxyethanol

Biodegradation

Aerobic, 100 %, Exposure time: 28 Days



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

Biological Oxygen Demand (BOD)

5 Days, 1,300 mg/g 20 Days, 1,800 mg/g

Chemical Oxygen Demand (COD)

2,180 mg/g

Theoretical Biological Oxygen Demand (ThBOD)

2,300 mg/g

Bioaccumulation

Approximately 2.5 BCF

Acute and Prolonged Toxicity to Fish

LC50: 1,490 mg/l (Bluegill (*Lepomis macrochirus*), 96 hrs) 1,250 mg/l (Silverside Minnow (*Menidia peninsulae*), 96 hrs) LC50: 2,137 mg/l (Fathead minnow (*Pimephales promelas*), 96 hrs)

Acute Toxicity to Aquatic Invertebrates

EC50: 1,720 -1,850 mg/l (Water flea (*Daphnia magna*), 24 hrs) LC50: 800 mg/l (Common shrimp (*Crangon crangon*), 48 hrs)

Toxicity to Aquatic Plants

EC50: > 1,000 mg/l, (Green algae (*Selenastrum capricornutum*), 7 Days)

Toxicity to Microorganisms

IC50: > 1,000 mg/l, (Activated sludge microorganisms, 16 hrs)

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Empty Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

SECTION 14: TRANSPORTATION INFORMATION

RSPA/DOT Regulated Components:

Dibutyl phthalate

Reportable Quantity: 1,000 lb

Land transport (DOT)

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air Transport (ICAO/IATA)

Non-Regulated

SECTION 15: REGULATORY INFORMATION

United States Federal Regulations

OSHA Hazcom Standard Rating: Hazardous

US. Toxic Substances Control Act: Listed on the TSCA Inventory.

SNUR Components

Sodium Nitrite
7632-00-0

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final
Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

US. EPA CERCLA Hazardous Substances (40 CFR 302):

Components

2-Butoxyethanol

Included in the regulation but with no data values. See regulation for
further details

Zinc Compound(s)

Included in the regulation but with no data values. See regulation for
further details

SARA Section 311/312 Hazard Categories:

Acute Health Hazard, Chronic Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

Components

None



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:

Components

2-Butoxyethanol Zinc Compound(s)

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Weight %	Components	CAS-No.
>=1%	Water	7732-18-5
>=1%	Acrylic Polymer	
10 - 20%	Calcium Silicate	13983-17-0
3 - 7%	Talc (non-asbestos form)	14807-96-6
1 - 5%	2-Butoxyethanol	111-76-2
1 - 5%	Zinc Compound(s)	

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

Weight %	Components	CAS-No.
1 - 5%	2-Butoxyethanol	111-76-2
1 - 5%	Zinc Compound(s)	
0.1 - 1%	Zinc Oxide	1314-13-2
0.1 - 1%	Dibutyl phthalate	84-74-2
0.1 - 1%	Diethylene glycol monobutyl ether	112-34-5

MA Right to Know Extraordinarily Hazardous Substance List:

Weight %	Components	CAS-No.
<0.1%	Distillates, petroleum, solvent-refined light paraffinic	64741-89-5
<0.1%	Ammonia	7664-41-7
<0.1%	Crystalline Quartz Silica	14808-60-7



MSDS

MATERIAL SAFETY DATA SHEET *Rust Prime 912*

California Prop. 65:

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. - Developmental toxin. -Female reproductive toxin. -Male reproductive toxin.

Weight %	Components	CAS-No.
<0.1%	Crystalline Quartz Silica	14808-60-7
<1 ppb	Cadmium	7440-43-9
<5 ppb	Arsenic	7440-38-2
<50 ppt	Nickel (Ni)	7440-02-0
<5 ppt	Mercury	7439-97-6
<5 ppb	Lead	7439-92-1
<1 ppb	Chloroform	67-66-3

SECTION 16: OTHER INFORMATION

NFPA 704M Rating

Health 1
Flammability 1
Reactivity 0

Other

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

HMIS Rating

Health 1*
Flammability 1
Physical Hazard 0

*0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe * = Chronic Health Hazard*

The method of hazard communication for American WeatherStar is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by American WeatherStar as a customer service.

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESS OR IMPLIED. THIS INFORMATION IS BELIEVED TO BE ACCURATE TO THE BEST KNOWLEDGE OF AMERICAN WEATHERSTAR. THE INFORMATION IN THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. AMERICAN WEATHERSTAR ASSUMES NO LEGAL RESPONSIBILITY FOR USE OF OR RELIANCE UPON THE INFORMATION IN THIS MSDS.