



INDUSTRIAL ROOFING, INC.

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: MASTER SEAL ROOF SEALER

Effective Date: 09/15/2006

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Industrial Roofing, Inc., urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 IDENTIFICATION

PRODUCT NAME	MASTER SEAL ROOF SEALER
CHEMICAL NAME	Not applicable
CHEMICAL FAMILY	Modified Acrylic Latex Coating
COMMON NAME	Not applicable
FORMULA	Not applicable
SYNONYM	Not applicable

1.2 COMPANY IDENTIFICATION

Industrial Roofing, Inc.
Calle 19 Esq. "C"
Parque Industrial Bo. Palmas
Catano, PR 00962

1.3 EMERGENCY TELEPHONE NUMBER

1-(787)-788-6940

2. COMPOSITION INFORMATION

Component	CAS #	WT. %
Water	7732-18-5	50-60
Acrylic Resin	Confidential	40-50
Ammonia	7664-41-7	<0.1
Polycarboxylic Acid	37199-81-8	0.2
Tektamer 38 AD	35691-65-7	0.1
Glycol Ether EB	112-34-5	2.0
Iron Oxide	1309-37-1	<0.1

Calle 19, Esq. C. Bo. Palmas Industrial Park, Cataño, PR 00962
Tel. (787) 788-6940

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3. HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Appearance Pale Red

Physical State Thick viscous liquid

Odor Mild

Hazards of product WARNING! VAPOR MAY BE HARMFUL IF
INHALED. MAY CAUSE SKIN IRRITATION.

3.2 POTENTIAL HEALTH EFFECTS

Effects of single acute overexposure

Inhalation May cause irritation of the respiratory tract experienced as burning sensation of eyes, nose, and throat, sneezing, coughing and nausea,

Eye Contact Liquid may cause discomfort in the eye with slight excess redness and possibly swelling of the conjunctiva.

Skin Contact Brief contact is not irritating. Prolonged contact, as from clothing wet with the material, may cause mild irritation, experienced as discomfort, and seen as local redness.

Skin Absorption No evidence of harmful effect from available information.

Swallowing No evidence of harmful effects from available information.

Chronic, Prolonged or Repeated Overexposure

Effects of Repeated Overexposure No adverse effects anticipated from available information.

Other Effects of Overexposure None currently known.

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Medical Conditions Aggravated by Exposure

A knowledge of available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical condition.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12 for Ecological Information.

4. FIRST AID PROCEDURES

4.1 INHALATION

Remove to fresh air. Give artificial respiration if not breathing. Qualified personnel if necessary may give oxygen. Call a physician.

4.2 EYE CONTACT

Immediately flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention.

4.3 SKIN CONTACT

Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.

4.4 SWALLOWING

If patient is fully conscious, give two glasses of water. Induce vomiting. This should be done by medical or experienced first-aid personnel. Obtain medical attention. Do not induce vomiting or give anything by mouth to an unconscious person.

4.5 NOTES TO PHYSICIAN

Toxicology studies have shown similar material to be of very low acute toxicity. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

5.1 FLAMABLE PROPERTIES

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Flash Point – Closed Cup: Not applicable.

Flash Point – Open Cup: Not applicable.

Auto ignition Temperature: Not currently available.

Flammable Limits In Air:

Lower Not Determined, Aqueous System

Upper Not Determined, Aqueous System

5.2 EXTINGUISHING MEDIA

Non-flammable (aqueous solution): After water evaporates, remaining material will burn. Apply alcohol-type or all-purpose-type foam by manufactures' recommended techniques for large fires. Use water spray, carbon dioxide or dry chemical media for small fires.

5.3 EXTINGUISHING MEDIA TO AVOID

No information currently available.

5.4 SPECIAL FIRE FIGHTING PROCEDURES

No information currently available.

5.5 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Use self-contained breathing apparatus when fighting fires in enclosed areas.

5.6 UNUSUAL FIRE AND EXPLOSION HAZARDS

Product will not burn but may spatter if temperature exceeds boiling point of water.

5.7 HAZARDOUS COMBUSTION PRODUCTS

Burning can produce the following products: Carbon monoxide and carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if Material is Released or Spilled:

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Small spills can be flushed with large amounts of water; larger spills should be collected for disposal.

Personal Precautions: Wear suitable protective equipment. See Section 8.2- Personal Protection.

Environmental Precautions: Not toxic to fish or plants.

7. HANDLING AND STORAGE

7.1 HANDLING

General Handling

Avoid breathing vapor from container opening.

Avoid contact with skin and clothing.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

Ventilation

General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

7.2 STORAGE

Store above 4 °C (40°F). Do not freeze.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

<u>Component</u>	<u>Exposure Limits</u>	<u>Skin Form</u>
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Ammonia	17 mg/m ³ TWA8 ACGIH	
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25 ppm TWA8 ACGIH
24 mg/m³ STEL ACGIH
35 ppm STEL ACGIH
27 mg/m³ STEL OSHA-Vacated
35 ppm STEL OSHA-Vacated
50 ppm TWA8 OSHA
35 mg/m³ TWA8 OSHA

In the Exposure Limits Chart above, if there is no specific qualifier (i.e., Aerosol) listed in the Form Column for a particular limit, the listed limit includes all airborne forms of the substance than can be inhaled.

A “Yes” in the Skin Column indicates a potential significant contribution to overall exposure by the cutaneous (skin) route, including mucous membranes and the eyes, either by contact with vapor or by direct skin contact with the substance. A “Blank” in the Skin Column indicates that exposure by the cutaneous (skin) route is not a potential significant contributor to overall exposure.

8.2 PERSONAL PROTECTION

Respiratory Protection: None required if airborne concentrations are maintained below listed exposure limits, select respiratory protection equipment in accordance with OSHA Standard 29 CFR 1910.134.

If necessary, use NIOSH approved mist respirator in poorly ventilated areas.

Ventilation: General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

Eye Protection: Safety glasses or monogoggles, as appropriate.

Protective Gloves: Polyvinyl chloride coated.

8.3 ENGINEERING CONTROLS

Avoid inhalation of product spray through the use of engineering controls. General (mechanical) room ventilation is expected to be satisfactory. Use local exhaust if needed to control mist or vapor,

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: Pale Red Thick Liquid

PH: 9 aprox.

Solubility in Water: Completely miscible

Odor: Mild

Boiling Point (760 mmHg): ~ 100 °C ~ 212 °F

Freezing Point: 0°C 32°F

Specific Gravity (H₂O =1): 1.05

Vapor Pressure at 20 °C: 2.4 kPa 18mmhg

Vapor Density (air =1): 0.6

Evaporation Rate (Butyl Acetate =1): 0.8

Dynamic Viscosity: 20,000 cps Approx.

Melting Point: Not applicable.

10. STABILITY AND REACTIVITY

10.1 STABILITY/INSTABILITY Stable

10.2 HAZARDOUS POLYMERIZATION Will Not Occur

10.3 INHIBITORS/STABILIZERS Not applicable

11. TOXICOLOGICAL INFORMATION

Information on analogous products shows minimal toxicity concerns.

ACUTE TOXICITY

Peroral: Rat LD₅₀ >2000 mg/kg

Percutaneous: Rat LD₅₀ > 2000 mg/kg

12. ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL FATE

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Not toxic to fish or plants. Does not inhibit bacteria in waste treatment facilities. Polymer is not biodegradable. Product is not RCRA hazardous. The following information is based on analogy with a similar material.

BOD (% Oxygen consumption)

Day 5	Day 10	Day 15	Day 20	Day 30
1-8%				

12.2 ECOTOXICITY

Toxicity to Micro-organisms: IC50 > 2000 mg/l

Toxicity to Aquatic Invertebrates: Daphnia EC50 >1,000 mg/l

Toxicity to Fish: Fathead Minnow LC50 > 1000 mg/l

12.3 FURTHER INFORMATION

None

13. DISPOSAL CONSIDERATIONS

13.1 WASTE DISPOSAL METHOD

Incinerate in furnace or otherwise dispose of in accordance with applicable Federal, State and local requirements. Dispose in accordance with all applicable Federal, State, and local environmental regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

13.2 DISPOSAL CONSIDERATIONS

Does not inhibit bacteria in waste treatment facilities. Polymer is not biodegradable. Product is not RCRA hazardous. See Section 13.1

Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options under applicable rules, regulations, and laws governing your location.

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14. TRANSPORT INFORMATION

14.1 U.S. D.O.T.

NON-BULK

Proper Shipping Name: NOT REGULATED

BULK

Proper Shipping Name: NOT REGULATED

15. REGULATORY INFORMATION

15.1 FEDERAL/NATIONAL

Comprehensive Environmental Response, compensation, and Liability Act of 1980 Section 103 (CERCLA)

Components of this product listed as hazardous substances in 40 CFR 302.4

None

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III Section 302 and 304

Components of this product listed as extremely hazardous substances in 40 CFR Part 355

None

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III Section 313

This product does not contain toxic chemicals at levels, which require reporting.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III Section 311 and 312

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Delayed Hazard: No
Fire Hazard: No
Immediate Health Hazard: No
Reactive Hazard: No
Sudden Release of Pressure Hazard: No

Toxic Substances Control Act (TSCA)

All components of this product are on the TSCA Inventory or are exempt from TSCA inventory requirements.

CEPA – Domestic Substances List (DSL)

The components of this product are on the DSL

16. OTHER INFORMATION

16.1 AVAILABLE LITERATURE AND BROCHURES

Additional information on this product may be obtained by calling: (787) 788-6940

16.2 SPECIFIC HAZARD RATING SYSTEM

HMIS ratings for this product are: **H – 0 F – 1 S – 0**

NFPA ratings for this product are: **H – 0 F – 1 S – 0**

16.3 RECOMMENDED USES AND RESTRICTIONS

For industrial and domestic use.

16.4 REVISION

Version: 1
Revision: 09/15/99

The information contained herein is current as of the date of revision of this MSDS.

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Since the use of this information and the conditions of the use are not under the control of Industrial Roofing, Inc. it is the user's obligation to determine conditions of safe use of the product.