

Replace

MATERIAL SAFETY DATA SHEET

Ashland

Page 001
Date Prepared: 11/17/05
Date Printed: 12/10/05
MSDS No: 306.0352374-004.001

ENVIROMAX CS CORROSION INHIBITOR

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: ENVIROMAX CS CORROSION INHIBITOR
Product Code:
General or Generic ID: CORROSION INHIBITOR

Company

Ashland
Ashland Distribution Co. &
Ashland Specialty Chemical Co.
P. O. Box 2219
Columbus, OH 43216
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)
24 hours everyday

Regulatory Information Number:
1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
ORGANIC SALT		1.0- 10.0
SODIUM TOLYLTRIAZOLE	64665-57-2	1.0- 8.0
PHOSPHONOCARBOXYLIC ACID MIXTURE	180513-31-9	1.0- 7.0
POTASSIUM HYDROXIDE	1310-58-3	1.8

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. The feeling of irritation or burning may be delayed following skin contact with potassium hydroxide solutions. Contact with mist or dust may cause multiple small skin burns. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects), Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

Swallowing

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation

Breathing of dust, vapor, and/or mist is possible. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 002
Date Prepared: 11/17/05
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ENVIROMAX CS CORROSION INHIBITOR

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), lung edema (fluid buildup in the lung tissue), lung damage, damage to the mouth, throat, and/or airways.

Target Organ Effects

No data

Developmental Information

This material (or a component) causes harm to the fetus.

Cancer Information

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin absorption, Skin contact, Eye contact, Ingestion.

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

Swallowing

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Note to Physicians

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 003

Date Prepared: 11/17/05

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5. FIRE FIGHTING MEASURES

Flash Point

No data

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, nitrogen oxides, phosphorous oxides.

Fire and Explosion Hazards

No special fire hazards are known to be associated with this product.

Extinguishing Media

regular foam (such as AFFF), water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

NFPA Rating

Health - 3, Flammability - 0, Reactivity - 1

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material. Wear personal protective equipment to avoid contact. Scrub with plenty of water. Scoop or scrape up. Put in container for recovery or disposal.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 004

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ENVIROMAX CS CORROSION INHIBITOR

Storage

Product solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. Store in closed containers in a dry, well-ventilated area. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Skin Protection

Wear impervious gloves (consult your safety equipment supplier). To prevent skin contact, wear impervious clothing and boots. Other protective equipment: eyewash station, emergency shower.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines

Component

ORGANIC SALT

No exposure limits established

SODIUM TOLYLTRIAZOLE (64665-57-2)

No exposure limits established

PHOSPHONOCARBOXYLIC ACID MIXTURE (180513-31-9)

No exposure limits established

POTASSIUM HYDROXIDE (1310-58-3)

OSHA VPEL 2.000 mg/m³ - Ceiling

ACGIH TLV 2.000 mg/m³ - Ceiling

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for component) 212.0 F (100.0 C) @ mmHg

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 005
Date Prepared: 11/17/05
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ENVIROMAX CS CORROSION INHIBITOR

Vapor Pressure

(for component) 17.500 mmHg

Specific Vapor Density

No data

Specific Gravity

1.061 @ 77.00 F

Liquid Density

8.830 lbs/gal @ 77.00 F

1.061 kg/l @ 25.00 C

Percent Volatiles

85.0 - 90.0 %

Volatile Organic Compounds (VOC)

.000 % @ (theoretical)

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

CLEAR

State

LIQUID

Physical Form

HOMOGENEOUS SOLUTION

Color

YELLOW

Odor

Not applicable

pH

13.3

Freezing Point

28.0 F (-2.2 C)

Solubility in Water

COMPLETE

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, nitrogen oxides, phosphorous oxides.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 006

Date Prepared: 11/17/05

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Chemical Stability

Stable.

Incompatibility

Avoid contact with: copper, reactive metals such as aluminum and magnesium, strong acids, strong oxidizing agents, temperature extremes.

11. TOXICOLOGICAL INFORMATION

This mixture has not been specifically tested.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

96 hour LC50 rainbow trout (static conditions): 354 mg/l

96 hour LC50 fathead minnow (static conditions): 1210 mg/l

48 hour LC50 Daphnia magna (static conditions): 3300 mg/l

Chemical Fate Information

BOD5: 3600 mg/l

COD: 104,100 mg/l

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-531-7106.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., 8, UN3267, III

Container/Mode:

55 GAL DRUM/TRUCK PACKAGE

NOS Component:

SODIUM TOLYLTRIAZOLE

POTASSIUM HYDROXIDE

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

Other Transportation Information

The Transport Information may vary with the container and mode of shipment.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 007
Date Prepared: 11/17/05
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MSDS No: 306.0352374-004.001

ENVIROMAX CS CORROSION INHIBITOR

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

Component	RQ (lbs)
POTASSIUM HYDROXIDE	1000

CERCLA RQ - 40 CFR 302.4(b)

This material has a RQ of 100 lbs as a D002 Corrosive unlisted hazardous substance.

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed(X) Fire() Reactive() Sudden Release of Pressure()

SARA 313 Components - 40 CFR 372.65

None

OSHA Process Safety Management 29 CFR 1910

None listed

EPA Accidental Release Prevention 40 CFR 68

None listed

International Regulations

Inventory Status

DSL (CANADA) This product complies with the Chemical Substance Inventory requirements.

State and Local Regulations

California Proposition 65

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.

ACRYLAMIDE
ARSENIC
ACRYLONITRILE

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause reproductive harm.

ARSENIC

New Jersey RTK Label Information

POTASSIUM HYDROXIDE 1310-58-3

Pennsylvania RTK Label Information

POTASSIUM HYDROXIDE (K(OH)) 1310-58-3

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 008

Date Prepared: 11/17/05

Date Printed: 12/10/05

MSDS No: 306.0352374-004.001

ENVIROMAX CS CORROSION INHIBITOR

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

ASHLAND

Ashland
Ashland Distribution Co. &
Ashland Specialty Chemical Co.
P. O. Box 2219
Columbus, OH 43216
614-790-3333



A Responsible Care®
Company

003 306 109 48532-001 02/07/05

LEE'S SUMMIT SCHOOL DISTRICT
502 SE TRANSPORT DRIVE
LEES SUMMIT
MO 64081

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LEES SUMMIT
MO 64081

(corrosive) RCRA Hazardous Waste if disposed w/o neutralization and pH of greater or equal to 12.5. Reporting spills to the U.S. Coast Guard may also be required under 40 CFR 117 and Section 311(a) of the Clean Water Act.

Additional Information/References

For more information, refer to Ashland Chemical's Brochure #2410 which may be obtained from your Ashland Sales Representative.

As a user of chemical products you are aware of the many uses of various chemicals. You should consider this data only as a supplement to other information gathered by you. Additional documents should be reviewed prior to using this product including the applicable Material Safety Data Sheet and storage and handling documentation for the product. This information can be obtained by contacting your Ashland Sales Representative. Ashland does not make any warranty or representation, either expressed or implied, with respect to the accuracy or correctness of the information contained herein; nor does Ashland assume any liability of any kind whatsoever resulting from the use of or reliance upon any information, procedures, conclusions or opinion in this document.

DREWTROL 7000 BOILER WATER TREATMENT
ENVIROMAX CS CORROSION INHIBITOR

1084
6965

