

ASHLAND
SAFETY DATA SHEET

2087

Page: 1
Revision Date: 07/03/2008
Print Date: 11/2/2008
MSDS Number: R0137818
Version: 1.8

AMERSITE® 2 CORROSION
INHIBITOR 84055

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone	1-800-ASHLAND (1-800-274-5263)

Product name	AMERSITE® 2 CORROSION INHIBITOR
Product code	84055
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, light yellow

WARNING! MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL IF INHALED. HARMFUL IF SWALLOWED. CAUSES EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS. CAUSES SKIN AND RESPIRATORY TRACT IRRITATION.

Potential Health Effects

Routes of exposure

Inhalation, Skin contact, Eye Contact, Ingestion - Industrial products are not meant to be swallowed

Eye contact

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

Skin contact

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects)

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Ingestion

Swallowing this material may be harmful.

Inhalation

Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Aggravated Medical Condition

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

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Lowered blood pressure, Exposure to this product (or a component) may cause an allergic reaction (narrowing of the air passages of the lungs resulting in difficult breathing, tightness in the chest, coughing and wheezing) in some sensitive individuals. Other symptoms of an allergic reaction may include itchy and watery eyes, runny and stuffy nose, sweating, flushing, hives, rapid heart rate, and lowered blood pressure.

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects

Carcinogenicity

Based on the available information, this material cannot be classified with regard to carcinogenicity. 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 (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed. Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

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Other information

Exposure to this material may cause severe or fatal allergic reaction in some asthmatics and sulfite sensitive individuals. Allergic reactions are immediate following breathing, injection or ingestion of oral solutions. Ingestion of solids or food particles may delay the onset of symptoms, with a maximal effect 30 to 90 minutes after ingestion. Exposure to this material may cause severe or fatal allergic reaction in some asthmatics and sulfite sensitive individuals. Allergic reactions are immediate following breathing, injection or ingestion of oral solutions. Ingestion of solids or food particles may delay the onset of symptoms, with a maximal effect 30 to 90 minutes after ingestion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
SODIUM METABISULFITE	7681-57-4	>=30-<40%

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. 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.

Notes to physician

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Hazards: Sulfur dioxide may be released if this material comes into contact with acids, water and/or ice. In contact with moisture, sulfur dioxide forms sulfuric acid which is corrosive to skin and mucous membranes.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Hazardous combustion products

Sodium oxides, sodium sulfide residue, sulfur dioxide

Precautions for fire-fighting

No special fire hazards are known to be associated with this product. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No data

Environmental precautions

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.

Methods for cleaning up

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. Use good personal hygiene practices. Wash

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hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash before reuse. Shower after work using plenty of soap and water. When opening, remove closures carefully to relieve possible internal pressure. Never use pressure to empty.

Storage

Store in closed containers in a dry, well-ventilated area. Keep from freezing. This product reacts slowly with air or oxygen. Storage under heated conditions in the presence of air or oxygen increases product degradation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

SODIUM METABISULFITE		7681-57-4
ACGIH	time weighted average	5 mg/m ³
NIOSH	Recommended exposure limit (REL):	5 mg/m ³

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

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

Eye protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin and body protection

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Wear resistant gloves such as:

Neoprene

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polyvinyl chloride

Respiratory protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	light yellow
Odour	pungent
Boiling point/boiling range	212.00 °F / 212 °F @ 760.00 mmHg
Melting point/range	15 °F / -9 °C
pH	4.1
Flash point	No data
Evaporation rate	> 1 (Ethyl Ether)
Explosion limits	No data
Vapour pressure	17.50 mmHg
Vapour density	(>) 1 (AIR=1)
Density	1.3 g/cm ³ @ 77 °F / 25 °C 10 lb/gal
Solubility	soluble in water
Partition coefficient: n-octanol/water	No data
log Pow	no data available
Autoignition temperature	No data

10. STABILITY AND REACTIVITY

Stability
Stable.

Conditions to avoid

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Incompatible products

Acids, alkalis, aluminum powder, Strong oxidizing agents

Hazardous decomposition products

Sodium oxides, sodium sulfide residue, sulfur dioxide

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

SODIUM METABISULFITE	LD 50 Rat: > 2 g/kg
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Acute inhalation toxicity

SODIUM METABISULFITE	no data available
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Acute dermal toxicity

SODIUM METABISULFITE	LD 50 Rat: > 2 g/kg
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12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

96 h LC 50 Oncorhynchus mykiss (rainbow trout), : 369 mg/l

Acute Toxicity to Aquatic Invertebrates

48 h LC 50 Water flea (Daphnia magna), : 833.9 mg/l

Environmental fate and pathways

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BOD5: 103 mg/l

COD: 59,000 mg/l

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

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's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

IMDG:

UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SODIUM HYDROGEN SULFITE,) 8, III

IATA_P:

UN2693, Bisulphites, aqueous solution, n.o.s. (SODIUM HYDROGEN SULFITE,) 8, III

IATA_C:

UN2693, Bisulphites, aqueous solution, n.o.s. (SODIUM HYDROGEN SULFITE,) 8, III

CFR_ROAD:

UN2693, Bisulfites, aqueous solutions, n.o.s. (SODIUM HYDROGEN SULFITE,) 8, III

CFR_RAIL:

UN2693, Bisulfites, aqueous solutions, n.o.s. (SODIUM HYDROGEN SULFITE,) 8, III

CFR_INWTR:

UN2693, Bisulfites, aqueous solutions, n.o.s. (SODIUM HYDROGEN SULFITE,) 8, III

IMDG_ROAD:

UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SODIUM HYDROGEN SULFITE,) 8, III

IMDG_RAIL:

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UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SODIUM HYDROGEN
SULFITE,) 8, III

Dangerous goods descriptions (if indicated above) may not reflect package size, quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

COBALT SULFATE HEPTAHYDRATE
NICKEL
SULFURIC ACID
COBALT

SARA Hazard Classification Acute Health Hazard

SARA 313 Component(s)

Reportable quantity - Components

SODIUM METABISULFITE 7681-57-4 none

	Health	Flammability	Reactivity	Other
HMIS	2	0	1	
NFPA	2	0	1	

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. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).