

ASHLAND
SAFETY DATA SHEET

2085

Page: 1

Revision Date: 06/02/2009

Print Date: 7/10/2009

MSDS Number: R0188032

Version: 1.2

AMERCOR® 8850 CORROSION
INHIBITOR 83419

**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	AMERCOR® 8850 CORROSION INHIBITOR
Product code	83419
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, Clear colorless to yellow

DANGER! FLAMMABLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. HARMFUL IF ABSORBED THROUGH THE SKIN. MAY BE HARMFUL. MAY CAUSE SEVERE BURNS OF RESPIRATORY AND DIGESTIVE TRACTS. HARMFUL IF SWALLOWED. CAUSES SEVERE BURNS OF THE EYES AND SKIN.

Potential Health Effects

Routes of exposure

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness. Additional symptoms of eye exposure may include: halo vision (blurred vision around bright objects)

Skin contact

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling 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) Passage of this material into the body through the skin is possible, and skin contact may be harmful.

ASHLAND

SAFETY DATA SHEET

Page: 2
Revision Date: 06/02/2009
Print Date: 7/10/2009
MSDS Number: R0188032
Version: 1.2

AMERCOR® 8850 CORROSION
INHIBITOR 83419

Ingestion

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 vapor or mist is possible. Breathing this material may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

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), male reproductive system, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways), Cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), nervousness, effects on blood pressure, chest pain, effects on heart rate, Lack of coordination, Difficulty in breathing, lung edema (fluid buildup in the lung tissue), May cause methemoglobinemia, a blood abnormality that may cause headache, difficulty breathing, lightheadedness, weakness, confusion, rapid heart rate and cyanosis (lack of oxygen in the tissues causing blue-colored skin and nails).

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible bladder effects, effects on male fertility, testis damage

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).

AMERCOR® 8850 CORROSION
INHIBITOR 83419

Reproductive hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Other information

This material (or a component) has been both positive and negative in tests for mutagenicity. The relevance of this finding to human health is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
CYCLOHEXYLAMINE	108-91-8	>=40-<50%

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.

Ingestion

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.

AMERCOR® 8850 CORROSION
INHIBITOR 83419

Notes to physician

Hazards: Overexposure to this product (or a component) may cause methemoglobinemia, which in sufficient concentration causes cyanosis. Severe cyanosis may require intravenous injection of methylene blue. Methylene blue is contraindicated if the patient has confirmed or suspected glucose-6-phosphate dehydrogenase deficiency.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical

Hazardous combustion products

May form: Ammonia, carbon dioxide and carbon monoxide, nitrogen compounds, toxic fumes, Hydrocarbons

Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

Flammability Class for Flammable Liquids

Combustible Liquid Class II

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

AMERCOR® 8850 CORROSION
INHIBITOR 83419

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

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

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. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. **Warning.** Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

CYCLOHEXYLAMINE		108-91-8
ACGIH	time weighted average	10 ppm
NIOSH	Recommended exposure limit (REL):	10 ppm
NIOSH	Recommended exposure limit (REL):	40 mg/m3

ASHLAND

SAFETY DATA SHEET

Page: 6

Revision Date: 06/02/2009

Print Date: 7/10/2009

MSDS Number: R0188032

Version: 1.2

AMERCOR® 8850 CORROSION
INHIBITOR 83419

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 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 and body protection

Wear resistant gloves (consult your safety equipment supplier).
To prevent skin contact, wear impervious full-body protective clothing.

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	Clear colorless to yellow
Odour	No data
Boiling point/boiling range	212.00 °F / 212 °F@ 760.00 mmHg
pH	(+/- 0.34) 12.4
Flash point	119.8 °F / 48.8 °C, Pensky Martens closed cup
Evaporation rate	> 1 (Ethyl Ether)
Explosion limits	1.5 %(V) 9.4 %(V)
Vapour pressure	17.50 mmHg
Vapour density	(>) 1 (AIR=1)

ASHLAND
SAFETY DATA SHEET

AMERCOR® 8850 CORROSION
INHIBITOR 83419

Page: 7
Revision Date: 06/02/2009
Print Date: 7/10/2009
MSDS Number: R0188032
Version: 1.2

Density 0.945 g/cm³ @ 77.00 °F / 25.00 °C
Solubility No data
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
None known. None known.

Incompatible products
Avoid contact with: Acids, aluminum, Copper, galvanized metals, Strong oxidizing agents, Zinc

Hazardous decomposition products
Ammonia, carbon dioxide and carbon monoxide, nitrogen compounds

Hazardous reactions
Product will not undergo hazardous polymerization.

Thermal decomposition
No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

CYCLOHEXYLAMINE	LD 50 Rat: 156 mg/kg
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Acute inhalation toxicity

CYCLOHEXYLAMINE	LC 50 Rat: 2.3 mg/l , 4 h
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ASHLAND
SAFETY DATA SHEET

Page: 8

Revision Date: 06/02/2009

Print Date: 7/10/2009

MSDS Number: R0188032

Version: 1.2

AMERCOR® 8850 CORROSION
INHIBITOR 83419

Acute dermal toxicity

CYCLOHEXYLAMINE	LD 50 Rabbit: 277 mg/kg
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12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

96 h LC 50 Oncorhynchus mykiss (rainbow trout), static test: 3,450 mg/l

96 h LC 50 Pimephales promelas (fathead minnow), static test: 381 mg/l

Acute Toxicity to Aquatic Invertebrates

48 h LC 50 Water flea (Daphnia magna), static test: 772 mg/l

Environmental fate and pathways

COD: 450,000 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:

UN2357, CYCLOHEXYLAMINE SOLUTION 8 (3), II

IATA_P:

UN2357, Cyclohexylamine Solution 8 (3), II

ASHLAND
SAFETY DATA SHEET

AMERCOR® 8850 CORROSION
INHIBITOR 83419

Page: 10
Revision Date: 06/02/2009
Print Date: 7/10/2009
MSDS Number: R0188032
Version: 1.2

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).