



# SAFETY DATA SHEET

Revision Date 01/30/2015

REVISION NUMBER: 2

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

### Product identifier

Product name AMERCOR 8703

### Other means of identification

Product code 119626  
UN/ID No. 2735  
Synonyms NONE

### Recommended use of the chemical and restrictions on use

Recommended Use Corrosion inhibitor.  
Uses advised against No information available

### Details of the supplier of the safety data sheet

Manufacturer Address  
Rochester Midland Corporation  
155 Paragon Drive  
Rochester, New York 14624 USA

### Emergency telephone number

EMERGENCY TELEPHONE INFOTRAC: 1-800-535-5053  
OUTSIDE U.S.: +1-352-323-3500

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Reproductive Toxicity	Category 2
Flammable liquids	Category 4
Corrosive to metals	Category 1

### Label elements

#### **Emergency Overview**

#### **DANGER**

#### **Hazard statements**

Causes severe skin burns and eye damage  
May cause an allergic skin reaction  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child  
COMBUSTIBLE LIQUID  
May be corrosive to metals



Appearance Clear Yellow

Physical state Liquid

Odor Slight Amine

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep only in original container

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction  
 Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool  
 Store in corrosive resistant container

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

No information available

**Other Information**

- May be harmful if swallowed
- May be harmful in contact with skin

**Unknown Acute Toxicity**

6.6% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	CAS No.	%	TRADE SECRET
2-DIETHYLAMINOETHANOL	100-37-8	10 - 15	*
CYCLOHEXYLAMINE	108-91-8	10 - 15	*
2-BUTANONE OXIME	96-29-7	5 - 10	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### First aid measures

<b>General advice</b>	Immediately call a POISON CENTER or doctor/physician.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>Skin contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Drowsiness. Dizziness. May cause allergic skin reaction.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Dry chemical. Carbon dioxide (CO2). Water.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

No information available.

### Explosion data

**Sensitivity to Mechanical Impact** NONE.

**Sensitivity to Static Discharge** NONE.

### Protective equipment and precautions for firefighters

Vapors may travel to source of ignition and flash back. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection.
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### Environmental precautions

<b>Environmental precautions</b>	Keep out of drains, sewers, streams, or other bodies of water. See Section 12 for additional ecological information.
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### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.
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**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only in well-ventilated areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Do not store near heat, sparks or flame. Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied.

**Incompatible materials** Acids. Bases. Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Copper. Nitrates. Peroxides. Reducing agents. Strong oxidants, such as nitric acid, or hypochlorites.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

PRODUCT COMPOSITION CAS#	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-DIETHYLAMINOETHANOL 100-37-8	TWA: 2 ppm	S* (vacated) S* (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m <sup>3</sup> TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	100 ppm
CYCLOHEXYLAMINE 108-91-8	TWA: 10 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m <sup>3</sup>	-

### Appropriate engineering controls

**ENGINEERING CONTROLS** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Goggles and face shield are recommended to minimize eye contact.

**Skin and body protection** Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact. Appropriate protective clothing as needed to prevent skin contact. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.

**RESPIRATORY PROTECTION** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Slight Amine
<b>Appearance</b>	Clear Yellow	<b>Odor threshold</b>	No information available
<b>Color</b>	Light Yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	12.5	
Melting point/freezing point	No information available	
Boiling point / boiling range	100 °C / 212 °F	
Flash point	64 °C / 148 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	0.975 - 0.982	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

#### Other Information

Softening point	No information available
VOC (EPA METH.24) (G/L):	257 - 297
Density	8.16 lbs/gal
Bulk density	No information available

## **10. STABILITY AND REACTIVITY**

#### REACTIVITY

No data available

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### CONDITIONS TO AVOID

Heat, flames and sparks. Moisture. Extremes of temperature and direct sunlight.

#### Incompatible materials

Acids. Bases. Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Copper. Nitrates. Peroxides. Reducing agents. Strong oxidants, such as nitric acid, or hypochlorites.

#### Hazardous Decomposition Products

Ammonia. Oxides of Carbon. Oxides of Nitrogen.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

<b>Product Information</b>	Causes severe skin burns and eye damage May be harmful if swallowed
<b>Inhalation</b>	May cause irritation of respiratory tract. Causes burns.
<b>Eye contact</b>	Corrosive to the eyes and may cause severe damage including blindness.

**Skin contact** May cause sensitization by skin contact. Causes burns. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May be harmful in contact with skin.

**Ingestion** Causes burns. May be harmful if swallowed.

PRODUCT COMPOSITION CAS#	Oral LD50	Dermal LD50	Inhalation LC50
2-DIETHYLAMINOETHANOL 100-37-8	= 1300 mg/kg ( Rat )	= 1260 µL/kg ( Rabbit )	-
CYCLOHEXYLAMINE 108-91-8	= 11 mg/kg ( Rat )	= 320 mg/kg ( Rabbit )	-
2-BUTANONE OXIME 96-29-7	= 930 mg/kg ( Rat )	= 0.2 mg/kg ( Rabbit )	= 20 mg/L ( Rat ) 4 h

#### Information on toxicological effects

**Symptoms** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

PRODUCT COMPOSITION CAS#	ACGIH	IARC	NTP	OSHA
CYCLOHEXYLAMINE 108-91-8	-	Group 3	-	-

**Reproductive Toxicity** Possible risk of impaired fertility. Possible risk of harm to the unborn child.  
**STOT - single exposure** lungs.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 6.6% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2804 mg/kg

ATEmix (dermal) 4001 mg/kg

ATEmix (inhalation-dust/mist) 13.6 mg/l

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

6.6% of the mixture consists of components(s) of unknown hazards to the aquatic environment

PRODUCT COMPOSITION CAS#	Algae/aquatic plants	Fish	Crustacea
2-DIETHYLAMINOETHANOL 100-37-8	30: 72 h Desmodesmus subspicatus mg/L EC50	1660 - 1920: 96 h Pimephales promelas mg/L LC50 flow-through	83.6: 48 h Daphnia magna Straus mg/L EC50
CYCLOHEXYLAMINE 108-91-8	20: 96 h Pseudokirchneriella subcapitata mg/L EC50 20: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	470: 96 h Brachydanio rerio mg/L LC50 static 44 - 90: 96 h Oncorhynchus mykiss mg/L LC50	-
2-BUTANONE OXIME 96-29-7	83: 72 h Desmodesmus subspicatus mg/L EC50	777 - 914: 96 h Pimephales promelas mg/L LC50 flow-through 760: 96 h Poecilia reticulata mg/L LC50 static	750: 48 h Daphnia magna mg/L EC50

#### Persistence and degradability

No information available.

**Bioaccumulation**

No information available.

PRODUCT COMPOSITION CAS#	Partition coefficient
2-DIETHYLAMINOETHANOL 100-37-8	0.21
CYCLOHEXYLAMINE 108-91-8	1.2
2-BUTANONE OXIME 96-29-7	0.65

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

<b>Disposal of wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Do not reuse container.

**14. TRANSPORT INFORMATION**

<b>UN/ID No.</b>	2735
<b>Proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (Cyclohexylamine, Diethyl Ethanolamine)
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>Description</b>	5 Liters (1.3 Gallons) and Less may be Classed as LTD. QTY.

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Does not Comply
<b>ENCS</b>	Does not Comply
<b>IECSC</b>	Complies
<b>KECL</b>	Does not Comply
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

ACUTE HEALTH HAZARD	YES
CHRONIC HEALTH HAZARD	YES
FIRE HAZARD	YES
Sudden release of pressure hazard	No
REACTIVE HAZARD	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

PRODUCT COMPOSITION CAS#	Hazardous Substances RQs (in LBS)	U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
CYCLOHEXYLAMINE 108-91-8	-	10000

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals

## U.S. State Right-to-Know Regulations

PRODUCT COMPOSITION CAS#	NJRTK:	MARTK:	PARTK:
2-DIETHYLAMINOETHANOL 100-37-8	0691	Listed	Listed
CYCLOHEXYLAMINE 108-91-8	0576	Listed	Listed

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION

### NFPA

Health hazards 3

Flammability 2

Instability 0

Physical and Chemical Properties CORR

### HMIS

Health hazards 3

Flammability 2

Physical hazards 0

Personal protection D

Revision Date

01/30/2015

Revision Note

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

\*\*\* END OF SDS \*\*\*