

Material Name

CORROMIN E4

MSDS No.9809100QK

Issue Date: July/04

Revision date: 2004-07-22

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: Proprietary Fatty Amines Mixture.

Manufacturer Information

QUIMIKAO S.A.DE C.V.
 K.M.22.5 Carr.Guadalajara/Salto
 El Salto, Jalisco,México 45681
 Phone Mx 52-33-36880422

Distributor/Contact Information

Kao Specialties Americas LLC
 243 Woodbine St.
 High Point, NC 27260
 Phone US 336-884-2214

EMERGENCY PHONE - CHEMTREC: 1-800-424-9300

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

| Components | %WT | CAS # |
|-------------------------|-----|---------|
| Hexamethylene Tetramine | 18% | |
| Isopropyl alcohol | 14% | 67-63-0 |

Component Information/Information on Non-Hazardous Components
 This product is hazardous under DOT 49 CFR 172.101, and the manufacturer's determination.

Section 3 - HAZARDS IDENTIFICATION

Emergency Overview

Flammable liquid, corrosive,
FLASH POINT: 61°C (141.8°F) Martin Penske closed cup
N.F.P.A:Ratings: Health:2 Fire:2 Reactivity:0
Personal Protection: (See Section 8)-

Label information: FLAMMABLE, CORROSIVE

Potential Health Effects

Eyes:

cause discomfort, irritation and stinging.

Skin:

Prolonged or repeated contact with this product will result some skin drying and cracking. Mild irritation.

Ingestion

This product is harmful if swallowed, and cause damage to mucous membranes.

Inhalation

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This product causes nose and throat irritation, specially when heated.

SECTION 4 - FIRST AID MEASURES**Eyes**

Flush eyes with plenty of water for a minimum of 15 minutes, and seek medical attention.

Skin

Remove all contaminated clothing. Flush skin with plenty of water for a minimum 15 minutes. Seek medical advice.

Ingestion

If victim is conscious, give a strong solution of salt water and induce vomiting. Obtain medical attention promptly.

Inhalation

Remove person to fresh air and seek medical attention. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician

This product containing Isopropanol (14%)

Section 5 - FIRE FIGHTING MEASURES

Flash Point : 61°C/141.8°F
Method Used : Martin penske closed cup
Auto Ignition : Not available.
Flammability Classification
Rate of Burning : Not available.

General Fire Hazards :

Irritating and/or toxic gases may be emitted upon the product's decomposition.

Hazardous Combustion Products

Combustion or decomposition will generate carbon dioxide, carbon monoxide, nitrogen oxides, chloride gas, etc.

Extinguishing Media

Dry chemical or carbon dioxide for small fires. AFFF for large fires.

Fire Fighting Equipment/Instructions

Cool fire exposed tank/container surfaces with water spray. Fight fire from upwind position. Wear self-contained breathing apparatus and full protective equipment.

NFPA Ratings: Health:1 Fire:3 Reactivity:0 Other: -

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**HMIS Ratings: Health:2 Fire:2 Reactivity:0
Personal Protection:(See Section 8)**

Section 6 - ACCIDENTAL RELEASE MEASURES**Containment Procedures**

Review FIRE FIGHTING MEASURES (Section 5) and EXPOSURE CONTROLS/PERSONAL (Section 8) before proceeding with cleanup. Use appropriate personal protective equipment during cleanup. Prevent release of material into the natural environment.

Clean-Up Procedures

Small spills: Absorb spills with suitable inert absorbent and incinerate or dispose of in accordance with governmental regulations.

Large spills: Dike spill. Contain spill by pumping or with suitable absorbent and place in covered container. Dispose of in accordance with applicable regulations.

Evacuation Procedures

Isolate hazard area. Keep unnecessary personnel from entering.

Special Instructions

Dispose of as hazardous material waste in accordance with governmental regulations.

Section 7 - HANDLING AND STORAGE**Procedures for Handling**

Prevent breathing vapors or mist. Prevent contact with eyes, skin or clothing.

Recommended Storage Methods

Keep containers tightly closed and store in a cool, well ventilated area.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines****Component Exposure Limits**

No ACGIH, NIOSH or OSHA exposure guidelines listed for this product's components.

General Product Information

This product is hazardous. Handling this chemical without proper personal protection equipment and other exposure controls

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may result in injury.

Engineering Ctrl:

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face : Wear goggles, full face purifying apparatus (NIOSH)

Skin : Use rubber gloves, chemical-resistant protective clothing or apron as appropriate to situation.

Respiratory: In laboratory, use product in hood or properly ventilated area. Use NIOSH approved full-face air purifying.

Section 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance : Brown liquid

Odor: Isopropanol.

Physical State : liquid

pH: 6-8 (5% in water).

Boiling Point: >70°C (>158°F)

Freezing Point: Not avail.

Melting Point: Not available

Solubility (H2O): Partial/Soluble

Specific Gravity: 0.87 25°C (77°F) **Particle Size:** Not determined

Section 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability : Stable

Conditions to Avoid: Not contact with iron, steel, copper, bronze and high temperatures

Incompatibility : Reacts with strong oxidizing agents at high temperatures

Hazardous Decomposition Products: Not available.

Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION**Acute Toxicity/Target Organ Information****A. General Product/Component Information:**

Not available.

B. Component LD50/LC50:

Not available.

Epidemiology:

Not available.

Carcinogenicity**A. General Product/Component Information:**

Not available.

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B. Component Carcinogenicity Listings:

None of this product's components are listed by ACGIH, IARC; NIOSH, NTP or OSHA.

Teratogenicity/Reproductive Effects:

Not available.

Neurotoxicity:

Not available.

Mutagenicity:

Not available.

Section 12 - ECOLOGICAL INFORMATION**Ecotoxicity:**

Not available.

Environmental Fate:

Not available.

Section 13 - DISPOSAL CONSIDERATIONS**US EPA Waste Number & Descriptions**

A. General Product Information: Not available.

B. Component Waste Numbers: Not available.

C. Disposal instructions: Dispose of material waste in accordance with governmental regulations.

Dispose of material waste in accordance with governmental regulations. Prevent release of material into natural water resources

Section 14 - TRANSPORTATION INFORMATION**DOT Information**

Shipping Name: flammable liquid, corrosive, n.o.s.

Hazard Class : 3, subsidiary 8

UN/NA # : 2924

Packing Group: III

Label(s) Required: Flammable, corrosive

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Section 15 - REGULATORY INFORMATION**US Federal Regulations****A. General Product Information**

Not on TSCA Inventory

B. Component Information

Not available

State Regulations**A. General Product Information**

Not Regulated

B. Component Information

Not available

Other Regulations:**A. General Product Information**

Not available

B. Component Information

Not available

Section 16 - OTHER INFORMATION**Other Information**

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Key/Legend

Not provided

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Phone: 336-884-2214**End of MSDS:** 9809100QK**Print Date:** 2004-07-22