MATERIAL SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: Propietary mixture

Manufacturer Information **Distributor/Contact Information**

QUIMIKAO, S.A. DE C.V.
KM 22.5 Carr.Guadalajara-El Salto
El Salto, Jalisco, MÉXICO 45681
----PHONE #: MX: 52-33-32841000

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

Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Component	% Wt	CAS #
Acetic acid	N/d	64-19-7
Hydrochloric acid	traces	7647-01-0

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

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Corrosive. May cause chemical burns or severe irritation upon contact with eyes. Oily reddish liquid, insoluble in water, at room temperature, with amine characteristic odor. Harmful upon contact with skin, if swallowed, or inhaled.

FLASH POINT: >60°C (>140°F)

HMIS Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard scale:0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe

Personal Protection: (See Section 8)- Use appropriate chemical resistant protective clothing and a NIOSH approved full-face air-purifying apparatus when handling large quantities or attending small spills. Use self-contained breathing apparatus for large or uncontrolled spills.

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Label Information: CORROSIVE

Potential Health Effects

Eyes

This product may cause severe irritation, burn, or possible eye damage.

Skin

This product may cause skin irritation or burn.

Ingestion

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

Inhalation

This product may cause 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 of 15 minutes. Wash affected body areas with 2% aqueous acetic acid solution and after that wash with water. Seek medical advice. Dispose of contaminated clothing as hazardous material waste. (See Section 13)

Ingestion

If the material is swallowed, get immediate medical attention or advice.

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 is only slightly soluble in water and will adhere to skin. The manufacturer successfully uses 2% acetic acid in water to neutralize the product on SKIN ONLY. (NOTE: higher concentrations of acetic acid may generate heat during neutralization, potentially giving thermal burns in addition to chemical burns). Advise feasibility of use in specific situation. Symptoms of exposure may or not may be immediately apparent. They include burning sensation, coughing, laryngitis, shortness of breathing, headache, nausea and vomiting.

Section 5 - FIRE FIGHTING MEASURES

Flash Point : >60°C (>140°F)
Method Used : MARTIN-PENSKE closed cup method
Upper Flammable Limit (UFL): Not available
Lower Flammable Limit (LFL): Not available
Auto Ignition : Not available
Flammability Classification: OSHA CLASS IIIB
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 monoxide, carbon dioxide, nitrogen oxides, etc.

Extinguishing Media
Dry chemical or carbon dioxide for small fires.
Alcohol-type or all-purpose-type foams 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: 2 Fire: 1 Reactivity: 0 Other: -

HMIS Ratings: Health: 2 Fire: 1 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 to natural waters and sewers. Contain spills by manufacture of dike.

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 and unprotected 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

A. General product information.

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

B.- Component exposure Limits.

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

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

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face: Wear chemical splash goggles in laboratory and for handling small quantities of the material. Wear a NIOSH approved full-face air purifying apparatus with methyl amine/ammonia cartridge for bulk handling of material or small spills.

Skin: Use chemical-resistant gloves made of material such as butyl rubber or neoprene. Use chemical-resistant protective clothing or apron as appropriate to situation.

Respiratory: In laboratory, use product in hood or properly ventilated area. Use a NIOSH approved full-face air-purifying apparatus with methyl amine/ammonia cartridge for bulk handling of material or small

spills. Use self-contained breathing apparatus for large or uncontrolled spills.

General: ALWAYS use the appropriate personal protective equipment when handling this chemical.

Section 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance	: Oily reddish liquid	**Odor**	: Amine characteristic
Physical State	: Liquid	**pH**	: 2.5 - 4.0
Vapor Pressure	: Not available	**Vapor Density**	: > 1 (air=1)
Boiling Point	: Not available	**Freezing Point**	: Not available
Melting Point	: Not available	**Solubility (H20)**	: soluble
Specific Gravity	: 1.1 @25°C(77°F)	**Particle Size**	: Not applicable
Softening Point	: Not applicable	**Evaporation Rate**	: Not available
Viscosity	: Not available	**Bulk Density**	: Not available
Percent solids	: 50 - 60%	**Molecular Weight**	: Not available

Section 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability: Stable
Conditions to Avoid: Avoid heating directly in air.
Incompatibility: Avoid oxidizing agents, strong acids, acid anhydrides, copper and copper alloys.
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.Components LD50/LC50
350 mg/kg oral, rat
Epidemiology
Not available
Carcinogenicity
A.General Product/Component Information
Not available

B.Component Carcinogenicity Listings

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

Teratogenicity/Reproductive Effects

No

Neurotoxicity

No

Mutagenicity

No

Other Information

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

For disposal, this product falls under the US EPA hazardous waste category of D002 (Unlisted Hazardous Wastes Characteristic of Corrosive)

Disposal Instructions

Dispose of material waste in accordance with governmental regulations.

Section 14 - TRANSPORTATION INFORMATION

DOT Information

Shipping Name: Polyamines, liquid corrosive, n.o.s.
Hazard Class : 8
UN/NA # : 2735
Packing Group: III

Label(s) Required

CORROSIVE

International Transportation Regulations

Sea (IMDG): Class 8,
Air (IATA): Class 8, Packing group III

Section 15 - REGULATORY INFORMATION

US Federal Regulations

A. General Product Information

Regulated under DOT

☒Not on TSCA Inventory - Provided under R&D Exemption

State Regulations

A. General Product Information

Not Regulated

B. Component Analysis

Not applicable

Other Regulations

A. General product information

The components of this product are listed on the following inventories:

TSCA Inventory :	no
DSL (Canada) :	not evaluated
NDSL (Canada) :	not applicable
EINECS (Europe):	no
AICS (AUSTRALIA):	not evaluated

Section 16 - OTHER INFORMATION

Other Information

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Key/Legend

Not provided

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End of MSDS # 0101108QK **Print Date: 22/10/a**