

MATERIAL SAFETY DATA SHEET

Material Name:

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ASFIER 720

Issue Date: SEP/03

MSDS No.: 9810090QK

Revision Date: 2007-04-25

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name : N-fatty alkyl polyamines salt

Manufacturer Information

Distributor/Contact Information

QUIMI-KAO, S.A. DE C.V. Kao Specialties Americas LLC
Km. 22.5 carr. Guadalajara El Salto 243 Woodbine St.
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----PHONE # MX: 52-33-3688-0422 ----PHONE # US: 336-884-2214

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Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Table with 3 columns: Components, %Wt, CAS #. Row 1: Amines, n-tallow alkyl trimethylenedi-, < 1, 61791-55-7

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

Characteristics: Corrosive. May cause chemical burns or severe irritation upon contact with eyes. Yellow, slightly soluble in water, liquid at room temperature. Harmful upon contact with skin, if swallowed, or inhaled. Toxic to aquatic organisms.

FLASH POINT: 110°C (230°F)

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

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

Label Information: CORROSIVE

Potential Health Effects

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Eyes

This product may cause severe irritation, burn or possible eyes damage at contact

Skin

Skin contact, even for a short time, may cause irritation with redness, and severe swelling and blistering

Ingestion

May cause severe irritation of the mouth, throat and stomach

Inhalation

This product may cause nose throat irritation, specially when heated

Section 4 - FIRST AID MEASURES

Eyes

Flush eyes with plenty of water for a minimum of 15 minutes, contact lenses should be removed if the initial flush does not wash them out, and seek medical attention. Immediate first aid is needed to prevent eye damage.

Skin

Remove contaminated clothing IMMEDIATELY. Wash skin THOROUGHLY with plenty of soap and water. Continue application of cold water to burn area. Get medical attention if indicated

Ingestion

If the material is swallowed, do not induce vomiting, give plenty of water, also rinse mouth, 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, get medical attention, if indicated

Notes to Physician

Not Provided

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Section 5 - FIRE FIGHTING MEASURES

Flash Point : 110°C (230°F)
 Method Used : Martin Penske Closed Cup
 Upper Flammable Limit (UFL): N/A
 Lower Flammable Limit (LFL): N/A
 Auto Ignition : N/A
 Flammability Class. : Non-Flammable/Non-Combustible liquid
 Rate of Burning : N/A

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

Extinguishing Media

Dry chemical or carbon dioxide for small fires.
 Alcohol type or all purpose type foams for large fires. Spray water.

Fire Fighting Equipment/Instructions

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

 NFPA Ratings: Health: Fire: Reactivity: Other: -

HMIS Ratings: Health: 2 Fire: 1 Reactivity: 0
 Personal Protection: (See Section 8)

Section 6 - ACCIDENTAL RELEASE MEASURES

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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

If the product is spilled, sweep up the material and recover it, or mix the spilled material with sand or inert material as absorbant and shovel into suitable waste container. This material is non-hazardous under RCRA.

Evacuation Procedures

Isolate hazard area. Keep unnecessary and unprotected personnel from entering

Special Instructions

Prevent spread of spill

Section 7 - HANDLING AND STORAGE

Procedures for Handling

Use protective neoprene or nitrile rubber gloves, chemical splash goggles or face shield is recommended when splash hazard is present

Recommended Storage Methods

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

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

- General Product Information

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

- Component Exposure Limits

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

Engineering Control: Use local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face : Chemical splash goggles or face shield is recommended when splash hazard is present .

Skin : Use protective neoprene or nitrile rubber gloves,

Respiratory : Use a NIOSH/MSHA approved organic vapor can or cartridge.

General : Use of a chemical resistant apron or suit may be necessary in high exposure situations

Section 9 - PHYSICAL & CHEMICAL PROPERTIES

| | | | |
|--------------------------|--------------------|--------------------------|----------------------|
| Appearance | :Liquid brown | Odor: | Amine characteristic |
| Physical State | :Liquid | pH | : N/D |
| Vapor Pressure | : N/D | Vapor Density | : >1 (air=1) |
| Boiling Point | : 188°C (370°F) | Freezing Point | : N/D |
| Melting Point | : N/D | Solubility (H2O): | SLIGHTLY |
| Specific Gravity: | 0.93 at 25°C(77°F) | Particle Size | : N/A |
| Softening Point | : N/A | Evaporation Rate: | N/D |
| Viscosity | : N/A | Bulk Density | : N/A |
| Percent Volatile: | N/D | Molecular Weight: | N/D |

Section 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability : Stable

Conditions to Avoid: heating directly at air

Incompatibility: Strong oxidizing agents, strong acids, acid anhydrides, copper and copper alloys

Hazardous Decomposition Products

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Combustion or decomposition will generate carbon dioxide, carbon monoxide, nitrogen oxides

Hazardous Polymerization

Will not occur

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity/Target Organ Information

A. General Product / Component Information

Frequent or prolonged skin contact may produce irritation and cause dermatitis; for eyes causes severe irritation and possible eye damage

B. Component LD50/LC50

N/D

Epidemiology

Not available

Carcinogenicity

A. General Product/Component Information

Not available

B. Component Carcinogenicity Listings

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

Teratogenicity/Reproductive Effects

Not available

Neurotoxicity

Not available

Mutagenicity

Not available

Other Information

N/A

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Not available

Environmental Fate

Not available

Section 13 - DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

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A. General Product Information

This material, if discarded, would exhibit the characteristic of corrosivity and has the D002 EPA Hazardous Waste Number.

B. Component Waste Numbers

Not applicable

Disposal Instructions

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

Section 14 - TRANSPORTATION INFORMATION

DOT Information

Shipping Name: Polyamines, liquid, corrosive, n.o.s.
(N-fatty alkyl polyamines salt)

Hazard Class : 8

UN/NA # : 2735

Packing Group: III

Label(s) Required

CORROSIVE

International Transportation Regulations

Sea (IMDG): Class 8, Marine Polutant

Air (IATA): Class 8, Packing group III

Section 15 - REGULATORY INFORMATION

US Federal Regulations

A. General Product Information

Not on TSCA Inventory - Provided under R&D Exemption

Other Regulations

A. General Product Information

Not available

B. Component Information

Not available

Section 16 - OTHER INFORMATION

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Other Information

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Key/Legend

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