

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME</b>	<b>TETRANYL L-191</b>
<b>MSDS ID</b>	<b>760</b>
<b>Chemical Name</b>	<b>Dialkyl ester of triethanol ammonium methyl sulphate</b>
<b>MANUFACTURER INFORMATION</b>	<b>DISTRIBUTOR/CONTACT INFORMATION</b>
QUIMIKAO S.A.DE C.V Km. 22.5 Carr Guadalajara/Salto El Salto, JAL. Mexico 45681 Phone Mx. 52-33-3284-1000	QUIMIKAO S.A.DE C.V Km. 22.5 Carr Guadalajara/Salto El Salto, JAL. Mexico 45681 Phone Mx. 52-33-3284-1000

### FOR ALL TRANSPORTATION ACCIDENTS,

call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls

## II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	%WT	CAS#
Isopropyl alcohol	< 10	67-63-0
Esterquarts	>90	91995-81-2

If this table is blank, then this product does not contain any regulated substances.

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

•See Section VIII for exposure guidelines and Section XV for State Right to Know Information

## III. HAZARDS IDENTIFICATION

<b>FLAMMABLE LIQUID AT 50°C evaporates isopropanol</b>	
Flash Point	31°C Martin Peske closed cup
Label information	<b>FLAMMABLE</b>

### HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

<b>HEALTH</b>	<b>1</b>	<b>FLAMMABILITY</b>	<b>3</b>
<b>REACTIVITY</b>	<b>0</b>	<b>PERSONAL PROTECTION</b>	<b>See Section 8</b>

### POTENTIAL HEALTH EFFECTS

Eye	This product May cause discomfort, burn, irritation and stinging.
Skin Contact	This product or repeated contact may cause skin drying and carking. Mild irritation.
Ingestion	This product is harmful if swallowed, and cause damage to mucous membranes.
Inhalation	This product may cause nose and throat irritation, specially when heated.

### TARGET ORGANS

**Chronic Effects:** No known effects.

**Carcinogenicity:** See Section XI.

## IV. FIRST AID MEASURES

<b>Eyes:</b>	Flush eyes with plenty of water for a minimum of 15 minutes, and seek medical attention.
<b>Skin:</b>	Remove all contaminated clothing. Flush skin with plenty of water for a minimum 15 minutes. Seek medical advice. Dispose of contaminated clothing as hazardous material waste. (see the section 13).
<b>Ingestion:</b>	If the material is swallowed, give a strong solution of salt water and induce vomiting. Get immediate medical attention or advice.
<b>Inhalation:</b>	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 ISOPROPYL ALCOHOL (10 %)



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MSDS No. QKM-030760

### V. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

Flash Point:	31°C
Method:	Martin Peske closed cup
Upper Flammable Limit:	not available
Lower Flammable Limit:	not available
Auto Ignition:	not available.
Flammability Classification:	Flammable liquid 1-C (NFPA) at 38 °C / 100°F
Rate Of Burning :	Not available.

#### GENERAL FIRE HAZARDS :

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

#### HAZARDOUS PRODUCTS OF COMBUSTION:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons nitrogen oxides.

#### EXTINGUISHING MEDIA:

Foam (preferred), water. Dry chemical or carbon dioxide for small fires. AFFF for large fires.

#### FIRE FIGHTING INSTRUCTIONS:

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

#### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:

HEALTH	1	FLAMMABILITY	3
REACTIVITY	0	SPECIAL	---

### VI. ACCIDENTAL RELEASE MEASURES

**FOR ALL TRANSPORTATION ACCIDENTS**, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

Review FIRE FIGHTING MEASURES(Section 5) and EXPOSURE CONTROLS/PERSONAL(Section 8) before proceeding with cleanup. Use appropriate personal protective equipment during cleanup.

#### SMALL SPILL

Containment Techniques	Dike the spilled material, where this is possible.
Cleanup Procedures	Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.
Equipment	Shovel the material into waste container.
Other Emergency Advice	No other spill procedures necessary.

#### LARGE SPILL

Containment Techniques	Dike the spilled material, where this is possible.
Cleanup Procedures	No other spill procedures necessary.
Equipment	No additional information on equipment.
Other Emergency Advice	No other spill procedures necessary.

**Evacuation Procedure:** Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering.

### VII. HANDLING AND STORAGE

Handling:	Prevent breathing vapors or mist. Do not get this material in your eyes, on your skin, or on your clothing.
Storage:	Keep this material in a cool, well-ventilated place.

### VIII. 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.



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### ENGINEERING CONTROLS:

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

### PERSONAL PROTECTIVE EQUIPMENT:

<b>Eye/Face Protection</b>	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.
<b>Hand Protection</b>	Use chemical-resistant gloves made of material such as butyl rubber or neoprene
<b>Skin Protection</b>	Normal work clothing (long sleeved shirts and long pants) is recommended.
<b>Respiratory Protection</b>	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.

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

### IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White soft paste yellowish pale when liquid.
Physical state	Liquid at 40 °C
Odor:	Isopropanol
Solubility In Water:	Dispersable
Ph:	2 – 3 ( 5% in water)
Specific Gravity:	0.9693 @ 50°C
Melting Point (Degrees C)	36 °C / 97 °F
Boiling Point:	93.3 °C / 200 °F
Molecular Weight	785

### X. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
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:	None known.
Hazardous Polymerization:	Will not occur.

### XI. TOXICOLOGICAL INFORMATION

<b>Acute Effects</b>	
Eye Effects	This product may cause irritation to the eyes.
Skin Effects	This product may cause irritation to the skin.
Acute Oral Effects (Ingestion)	Not a likely route of entry.
Acute Inhalation Effects	Low vapor pressure makes inhalation unlikely at standard temperatures and pressures.
<b>Chronic Effects</b>	
Mutagenicity	No known significant effects or critical hazards
Teratology	No known significant effects or critical hazards
Reproductive And Developmental Toxicity	No known significant effects or critical hazards
Neurotoxicity:	No known significant effects or critical hazards

### CARCINOGENICITY

No known significant effects or critical hazards

Ingredient Name	Test	Result	Route	Species
Dialkyl ester of triethanol ammonium methyl sulphate	LD50	>2000 mg/kg	oral	rat



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### XII. ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION

Ingredient Name	Species	Period	Result
Dialkyl ester of triethanol ammonium methyl sulphate	Fish (LC50)	96 hr/hr	>1ml/l

#### ENVIRONMENTAL INFORMATION

Biodegradability

### XIII. DISPOSAL CONSIDERATIONS

Waste Description:	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
General Disposal Considerations:	For disposal, this product falls under the USEPA hazardous waste category of D002 (Unlisted Hazardous Wastes Characteristic of flammable).
Disposal of Empty Container / Container Rinsate:	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

### XIV. TRANSPORTATION INFORMATION

DOT SHIPPING INFORMATION	
Proper Shipping Name	Flammable, liquid, n.o.s. (Dialkyl ester of triethanol ammonium methyl sulphate)
UN/NA Number	1993
Hazard Class	3
Packing Group	III
Label Required	FLAMMABLE
Emergency Response Guidebook	128



#### INTERNATIONAL INFORMATION

IATA/ICAO	Class 3. Packing group III
Marine Pollutant	Class 3.

### XV. REGULATORY INFORMATION

#### US Federal Regulations

- A. General Product Information
  - On TSCA Inventory
- B. Component Information
  - Not available

### XVI. ADDITIONAL INFORMATION

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risks and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

#### Key/Legend

Not provided

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