



# MATERIAL SAFETY DATA SHEET (MSDS)

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** mXt9

**GENERAL USE:** Nano fuel-borne catalysts used to enhance combustion efficiency. Solution is added to Bunker fuel (also known as HFO - heavy fuel oil) at a dosage of less than 0.01%.

**COMPANY:** TK Fuels Australia, GPO Box 4216, Sydney, NSW, 2001, Australia

**TELEPHONE NO.:** +61(0)2 8249 4649

**EMERGENCY 24 HOUR TELEPHONE NO.:** +44(0)870 429 4894

**Web Site:** [www.tkfuels.com.au](http://www.tkfuels.com.au)

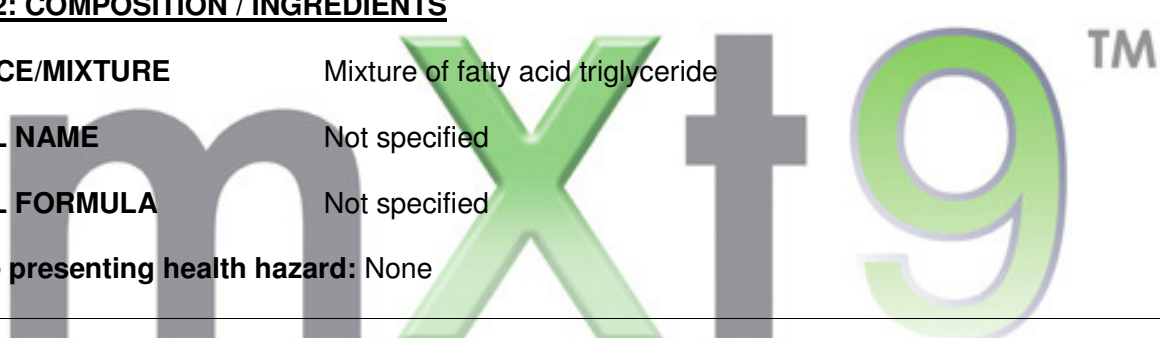
## SECTION 2: COMPOSITION / INGREDIENTS

**SUBSTANCE/MIXTURE** Mixture of fatty acid triglyceride

**CHEMICAL NAME** Not specified

**CHEMICAL FORMULA** Not specified

**Substance presenting health hazard:** None



## SECTION 3: HAZARD IDENTIFICATION

**Environmental Hazards:** None expected if handled and used properly.

**Human Health Hazards:** None expected if handled and used properly.

## SECTION 4: FIRST AID MEASURES

**Eyes:** Eye contact may cause irritation. Irrigate the eyes with plenty of water for at least 15 minutes.

**Skin:** In very rare cases, skin contact may cause irritation. Remove contaminated clothing and wash exposed area with plenty of water followed by soap and water.

**Inhalation:** Not considered dangerous. Take person into fresh air and allow to rest.

**Ingestion:** Not considered dangerous. Drink plenty of water.



## **SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point:** > 120 °C

**Suitable Extinguishing Media:** Dry powder, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Water jet, but use water to cool fire exposed containers.

**Protection of Firefighters:** Wear self contained breathing apparatus and other protective clothing.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Watch out for slippery conditions when spillage. Avoid contact with eyes.

**Environmental Precautions:** Keep away from drains and ground water.

**Methods of Cleaning Up:** Pick up excess with inert absorbent material and place into separate waste container. Flush area with warm soapy water.

## **SECTION 7: HANDLING AND STORAGE**

**Handling:** Handle with care and avoid spillage on the floor (slippage).

**Measures for safety handling:** Consider normal working hygiene. Keep away from sources of ignition.

**Storage:** Store in a cool dry place. Keep away from heat and direct light.

**Suitable packing materials:** Coated steel drums, plastic containers, dark glass.

**Non-suitable packaging materials:** Direct contact with iron, bronze or copper.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Respiratory protection:** No special measures at normal room temperature. If aspirated as an oil mist the respiratory system may be affected. Oil mist is classified a nuisance particulate by the American Conference of Governmental Industrial Hygienists (ACGIH) who recommended a TLV of 10 ppm.

**Hand protection:** No special measures at normal room temperature.

**Eye protection:** Usage of safety glasses / goggles is recommended.

**Skin protection:** No special measures at normal room temperature.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**



**Appearance and Odour:** Clear, diesel fuel oil odour

**Flash Point:** > 120 °C

**Auto inflammability:** Not possible

**Explosive properties:** Not explosive

**Vapor pressure:** Less than 0.01 mmHg

**Specific Gravity:** 0.90 at 40°C

**pH:** 6.8

**Solubility:** Insoluble in water

#### **SECTION 10: STABILITY AND REACTIVITY INFORMATION**

**Conditions to avoid:** Oxidation promoting conditions (heat, sunlight and air), temperatures below 5 degrees centigrade.

**Materials to avoid:** Strong oxidizing agents.

**Hazardous decomposition products:** Only through thermal decomposition products: H<sub>2</sub>O and CO<sub>2</sub>

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

The product is considered non-toxic.

**Oral (LD 50):** Not tested on animals.

**Inhalation ( LC 50):** Not to be expected

**Skin irritation:** In rare cases possible irritant.

**Eye irritation:** Slightly irritant. **Sensitation:** Not available.

**Chronic Toxicity:** Not to be expected.

#### **SECTION 12: ECOLOGICAL INFORMATION**

According to the chemical composition, product does not contain heavy metals and substances classified as dangerous for the environment.

**Elimination ( persistency and degradability):** Readily biodegradable

**Bioaccumulative potential:** Not available.



### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Product:** This material is not considered hazardous waste. It can be disposed in accordance with local regulations.

**Contaminated packaging:** Suitable waste-disposal site approved by local authorities.

### **SECTION 14: TRANSPORT INFORMATION**

This product is not a hazardous material. No special conditions, as it is not a regulated product.

### **SECTION 15: REGULATORY INFORMATION**

According to our information this product is not dangerous material.

**Symbols and phrases according to health hazards:** None.

**Dangerous substances to label:** None.

**R-phrases:** None

**S-phrases:** None

**DISCLAIMER:** The information supplied in this data sheet is obtained from currently available sources, which are believed to be reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE INFORMATION OR THE RESULTS TO BE OBTAINED FROM ITS USE. Handling, storage, use of and disposal of the above-referenced product is beyond our control and may occur under conditions with which we are unfamiliar. FOR THESE AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM ANY LIABILITY FOR DAMAGE, INJURY AND COST ARISING FROM OR RELATED TO THE MISUSE OF THE PRODUCT.