

# MATERIAL SAFETY DATA SHEET

## 1- CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name: **IRASOFT-T18**

Manufacturer: PADIDEH SHIMI NILI COMPANY

L/C Number: 0626A00238

Telephone Numbers :(+98)21-88610440-9

Website: [www.padidehshimi.net](http://www.padidehshimi.net)

Product Class Quaternary ammonium salt

## 2- COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percen
_Di-tallow ester ammonium methosulfate	157905-74-3	89 - 91 %
_Isopropanol	67-63-0	9 - 11 %

## 3- HAZARDS IDENTIFICATION

### Emergency Overview

Paste, Pale Yellow color.

Warning! Flammable

May cause irritation to the eyes, skin, and respiratory system.

### Health Effects:

#### Eyes

This product may cause irritation to the eyes.

#### Skin

Prolonged and/or repeated contact may cause irritation and redness

#### Inhalation

This product may cause irritation to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and loss of motor skills.

#### Ingestion

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

## 4- PERSONAL PROTECTION

### Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Personal Protective Equipment:

#### Eyes/Face

Wear chemical goggles and face shield.

#### Skin

Use impervious gloves. Wear suitable protective clothing.

#### Respiratory

If irritation is experienced, a NIOSH-approved respirator should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.

#### **General**

Eye wash fountain and emergency showers are recommended.

## **5- FIRST AID MEASURES**

### **Eyes**

Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.

### **Skin**

For skin contact flush with large amounts of water. If irritation persists, get medical attention. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse.

### **Inhalation**

If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.

### **Ingestion**

If swallowed, get medical attention. Do not induce vomiting.

## **6- FIRE FIGHTING MEASURES**

### **Flash Point**

(35 °C), 95 F PMCC

### **OSHA Flammability Classification**

Flammable IC

### **Fire and Explosion Hazards**

Product contains a flammable solvent. Vapors may be released that travel long distances, ignite and flash back.

### **Extinguishing Media**

Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel.

### **Fire Fighting Equipment / Instructions**

Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### **Hazardous Combustion Products**

Irritating and toxic gases or fumes may be released during a fire. Decomposition of this product may yield oxides of sulfur and nitrogen.

## **7- HANDLING & STORAGE**

### **Handling Procedures**

Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Keep this product from heat, sparks, or open flame. Wash thoroughly after handling. Use good personal hygiene practices. Use non-sparking tools when opening or closing containers.

### **Storage Procedures**

Store in a dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

## **8- ACCIDENTAL RELEASE MEASURES**

### **SPILL AND LEAK PROCEDURES**

Emergency Action:

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas. Wear appropriate personal protective equipment during cleanup. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Small Spills: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed Material. Large Spills: Dike ahead of liquid spill for later disposal.

## **9 - EXPOSURE CONTROLS/ TOXICOLOGICAL INFORMATION**

NIOSH - Health Standards - Exposure Limits

400 ppm TWA; 980 mg/m<sup>3</sup> TWA; 500 ppm STEL; 1225 mg/m<sup>3</sup> STEL

### **Carcinogenicity**

Not available.

## **10- PHYSICAL & CHEMICAL PROPERTIES**

**Flash Point** (35 °C), 95 F PMCC

**Boiling Point** (90 °C), 194 F

**Specific Gravity** (7.987 lb/gal), 0.96 g/ml (@ 50 C)

**Melting Point** (32.8 °C), 91 F

**Percent Volatile** 9 - 11 % (Isopropanol)

**Solubility in Water** Emulsifiable

**VOC** 9 - 11 % (Isopropanol)

**pH Value** 2 - 3.5 (5 % in IPA/Water)

**Appearance and Odor:** Paste, Pale Yellow color.

## **11- STABILITY & REACTIVITY**

### **Chemical Stability**

Stable under normal conditions

### **Conditions to Avoid**

Avoid excessive heat and ignition sources.

### **Incompatibility**

This product may react with acids, alkalies, oxidizing agents,

**Hazardous Decomposition**

Upon decomposition, this product may yield oxides of nitrogen and ammonia. Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.

**Hazardous Polymerization**

Will not occur.

**12- ECOLOGICAL INFORMATION**

**Ecotoxicity**

No data available on finished product

**13- DISPOSAL CONSIDERATIONS**

**Disposal Instructions**

This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulations (40 CFR 261). This material has a flashpoint less than 140 F and therefore exhibits the characteristic of ignitability and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations.

**14- TRANSPORT INFORMATION**

**Ground** Flammable Liquid, n.o.s. (contains Isopropanol), 3, 1993, III

**16 OTHER INFORMATION**

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<b>HAZARD RATINGS</b>	<b>HMIS</b>	<b>NFPA</b>
<b>Health</b>	1	1
<b>Flammability</b>	3	3
<b>Reactivity</b>	0	0
<b>PPE</b>	X	

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