



# MATERIAL SAFETY DATA SHEET (MSDS)

<b>Product Name:</b>	IRASOFT O18	<b>Document code:</b>	PSJ-RD-FR-22-00
<b>Chemical name:</b>	Bis(acetyloxyethyl)hydroxyethyl methylammoniummethosulphate esterquat	<b>Revision number:</b>	00
<b>Chemical class:</b>	Cationic ( esterquat)	<b>Revision date:</b>	

## COMPANY IDENTIFICATION

**Manufacturer:** PADIDEH SHIMI JAM CO.

**Tell:** +98 21 88580000

**Address:** No.16, Western Fourth Golbarg St., Baharestan St., Dadman Blvd., TEHRAN, IRAN

## HAZARDS IDENTIFICATION

### Health Effects

**Eyes:** Contact with eyes may cause irritation..

**Skin:** Prolonged and/or repeated skin contact may result in mild irritation or redness.

**Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system. Excessive inhalation of this product may cause headache, dizziness, blurred vision, nausea and vomiting.

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

## COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent
Quaternary TEA esters, C16-18 and C18 unsat, methosulfate	157905-74-3	Min. 89
Isopropanol	67-63-0	Min 9

## FIRST AID MEASURES

**Eyes:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes .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 clothing separately before reuse.

**Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air.If symptoms persist, get medical attention.If not breathing, give artificial respiration or give oxygen by trained personnel.If breathing is difficult, give oxygen.Get medical attention, if needed.

**Ingestion:** If ingestion of a large amount does occur, seek medical attention.If swallowed, do NOT induce vomiting.

## FIRE FIGHTING MEASURES

### Flammable properties

Flammable by OSHA criteria. Vapors may travel to a source of ignition and flash back.

### Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

### Protection of firefighters

#### Specific hazards arising from the chemical

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

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.





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## ACCIDENTAL RELEASE MEASURES

### Personal precautions

Isolate area. Keep unnecessary personnel away. Stay upwind. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Wear appropriate protective equipment and clothing during clean-up. Absorb the spilled material with an inert absorbent (nonflammable) material.

### Methods for containment

Prevent entry into waterways, sewers, basements or confined areas.

### Methods for cleaning up

Eliminate ignition sources including sources of electrical, static or frictional sparks.

**Small Spills:** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

**Large Spills:** Dike far ahead of liquid spill for later disposal.

## HANDLING AND STORAGE

### Handling

Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Use non-sparking tools when opening or closing containers. Wash hands thoroughly after handling.

### Storage

Store in a dry area. Keep the container in a well-ventilated place. Keep away from heat at temperatures between 10 and 40°C, sparks, and flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### US. ACGIH

Components	Type	Value
Isopropanol (67-63-0)	STEL	400 ppm
	TWA	200 ppm

### US. OSHA

Components	Type	Value
Isopropanol (67-63-0)	PEL	400 ppm _ 980 mg/m3
	STEL	500 ppm _ 1225 mg/m3
	TWA	400 ppm _ 980 mg/m3

### Engineering controls

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

### Personal Protective Equipment:

#### General:

Eye wash fountain and emergency showers are recommended.

#### Eyes/Face:

Wear chemical goggles. Face-shield.

#### Skin:

Wear suitable protective clothing. Use impervious gloves.

#### Respiratory:

When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full facepiece operated in a positive-pressure mode.





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## PHYSICAL & CHEMICAL PROPERTIES

Appearance	Liquid
Color	Yellowish
Physical state	Liquid.
pH	2.0 - 3.5 (5 % in IPA/Water)
Boiling point	194 °F (90 °C)
Flash point	95 °F (35 °C) PMCC
Specific gravity	0.96 g/ml (@ 50 C)
Solubility (water)	Emulsifiable
VOC	9 - 11 % (Isopropanol)
Percent volatile	9 - 11 %

## STABILITY & REACTIVITY

**Chemical Stability** Stable at normal conditions.

**Conditions to Avoid** Heat, flames and sparks.

**Incompatibility materials** Strong acids, alkalies and oxidizing agents.

**Hazardous Decomposition products**

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 reactions** Will not occur.

## TOXICOLOGICAL INFORMATION

### Toxicological data

Components	Test Result
Isopropanol (67-63-0)	Acute Dermal LD50 Rabbit: 5030 - 7900 mg/kg
	Acute Oral LD50 Dog: 4797 mg/kg
	Acute Oral LD50 Mouse: 3600 mg/kg
	Acute Oral LD50 Rabbit: 6410 mg/kg
	Acute Oral LD50 Rat: 4700 - 5800 mg/kg
	Acute Other LD50 Mouse: 1509 mg/kg
Acute Other LD50 Rat: 1099 mg/kg	

\* Estimates for product may be based on additional component data not shown

### Carcinogenicity

US. ACGIH Threshold Limit Values: A4 carcinogen

Isopropanol (67-63-0)	A4 Not classifiable as a human carcinogen
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## ECOLOGICAL INFORMATION

### Ecotoxicological data

Components	Test Result
Isopropanol (67-63-0)	LC50 Western mosquitofish (Gambusia affinis): > 1400 g/196 Hours

\* Estimates for product may be based on additional component data not shown

## DISPOSAL CONSIDERATIONS

### Disposal Instructions

Dispose in accordance with all applicable regulations. All wastes must be handled in accordance with local, state and federal regulations. Regulations vary.

## TRANSPORT INFORMATION

### Notes

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.





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## REGULATORY INFORMATION

### Reportable Quantity

There is no calculable reportable quantity (RQ) for this product.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance	No
CERCLA (Superfund) reportable quantity	No
Section 311 hazardous chemical	No

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances(PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\* "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Isopropanol (67-63-0)	Listed
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## OTHER INFORMATION

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**  
Health: 1  
Flammability: 3  
Physical hazard: 0  
Personal protection: X

**NFPA ratings**  
Health: 1  
Flammability: 3  
Instability: 0

### Disclaimer

Terms and Conditions. This MSDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this MSDS, or in any other way related (directly or indirectly) to this MSDS. The receipt and use of this information constitutes consent to these terms and conditions.

**Issue date:** 11 SEPTEMBER 2021

