



MATERIAL SAFETY DATA SHEET (MSDS)

Product Name:	IRASOFT SD	Document code:	PSJ-RD-FR-22-00
Chemical name:	Bis (acyloxyethyl) ammonium acetate	Revision number:	00
Chemical class:	Quaternary ammonium salt	Revision date:	

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

Emergency overview

Contact with eyes may cause irritation. Contact with skin may cause irritation. May cause irritation of respiratory tract

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 DEA esters	-	97 %
Acetic acid	64-19-7	3 %

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

It is not flammable

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

US. OSHA

Components	Type	Value

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.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	flake
Color	Off-white
Physical state	solid
pH	3-6 (1% in Water)
Melting point	52 °C
Specific gravity	0.61 g/ml (@ 50°C)
Solubility (water)	Emulsifiable





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STABILITY & REACTIVITY

Chemical Stability Stable at normal conditions.

Conditions to Avoid Heat, flames.

Incompatibility materials Strong acids, alkalies and oxidizing agents.

Hazardous Decomposition products

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

Hazardous Polymerization reactions Will not occur.

TOXICOLOGICAL INFORMATION

Toxicological data

Components	Test Result

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

Carcinogenicity

US ACGIH Threshold Limit Values: A4 carcinogen

ECOLOGICAL INFORMATION

Ecotoxicological data

Components	Test Result

* 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.

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

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

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OTHER INFORMATION

HMIS® ratings

Health: 1
Flammability: 0
Physical hazard: 0
Personal protection: X

NFPA ratings

Health: 1
Flammability: 0
Instability: 0





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OTHER INFORMATION

Disclaimer

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