



MATERIAL SAFETY DATA SHEET (MSDS)

Product Name:	PHOSPHONIL D73	Document code:	PSJ-RD-FR-22-00
Chemical name:	Diethylene triamine penta(methylene phosphonic acid), 7Na Salt (DTPMP_7Na)	Revision number:	00
Chemical class:	Phosphonic Acid	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

GHS Classification	N/A
Signal Word	None
Pictograms	None

Hazard statement

H335	May cause respiratory irritation
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PRECAUTIONARY STATEMENTS

P234	Keep only in original packaging
P260	Do not breathe dust/fumes/gas/mist/vapors/spray
P264	Wash all affected body parts thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection

Response

P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P406	Store in a corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with all applicable laws and regulations.

COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent
Diethylenetriamine Penta (methylene phosphonic acid) sodium salt	68155-72-2	Min. 30
Water	7732-18-5	Proprietary
Sodium Chloride	7647-14-5	Max. 5

FIRST AID MEASURES

First aid procedures

Eye contact

Flush with running water for at least fifteen minutes, periodically lifting upper and lower eyelids. Remove any contact lenses if safe to do so. Get medical attention immediately.

Skin contact

Flush skin with plenty of running water. Remove contaminated clothing. Get medical attention if irritation occurs.

Inhalation

Remove individual from further exposure. Seek medical attention if effects persists.

Ingestion

If the product is swallowed, rinse mouth with large quantities of water and call doctor/poison center immediately. Drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.





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FIRE FIGHTING MEASURES

General Hazard	Not combustible.
Suitable Extinguishing Media	Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
Specific Hazards arising from the substance or mixture	Non-combustible material
Special protective equipment and precautions for fire-fighters	Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions:

If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Slippery when spilt. Avoid accidents, clean up immediately. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

HANDLING AND STORAGE

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapor, mists and aerosols.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place and out of direct sunlight at 10 – 40 °C. Store away from incompatible materials described in Section 10. Do not store in metal containers. Keep containers closed when not in use - check regularly for leaks

EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

No value assigned for this specific material.

Appropriate engineering controls:

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting standard requirements

PHYSICAL & CHEMICAL PROPERTIES

Physical state	liquid
Form	liquid
pH	5.5
melting point	No information available
Boiling point	No information available
Evaporation rate	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	1.24 - 1.26 g/ml
Solubility in water	Fully Miscible in water
Freezing Point	-14°C





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STABILITY & REACTIVITY

Chemical stability	No information available.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Avoid exposure to extremes of temperature.
Incompatible materials	Incompatible with strong oxidising agents, strong acid solutions, and many metals.
Hazardous decomposition products	Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus. Phosphine

TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Inhalation	Breathing in mists or aerosols may produce respiratory irritation
Skin contact	Contact with skin may result in irritation
Eye contact	May be an eye irritant
Ingestion	No adverse effects expected, however, large amounts may cause nausea and vomiting

Acute toxicity

Oral LD50 (rat)	>5000 mg/kg
Dermal LD50 (rabbit)	>5000 mg/kg
Skin corrosion/irritation	Non-irritant (rabbit)
Serious eye damage/irritation	Non-irritant (rabbit)
Chronic effects	No evidence of reproductive effects No evidence of mutagenic properties

ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways
48hr EC50 (Daphnia magna)	242 mg/L
96hr LC50 (rainbow trout)	>180 mg/L
96hr LC50 (bluegill sunfish)	758 mg/L
96hr EC50 (algae)	1.6 mg/L (Selenastrum capricornutum)

DISPOSAL CONSIDERATIONS

Disposal methods:

Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations

TRANSPORT INFORMATION

Regulatory Information	UN No.	Proper Shipping Name	UN Class	Packing Group	Label
US DOT	N/A	Not Classified/Non Dangerous	-	-	-
IMDG	N/A	Not Classified/Non Dangerous	-	-	-

REGULATORY INFORMATION

US federal regulations

TSCA Status	All components of this product are in compliance with TSCA
CERCLA Section 103 (40 CFR 302.4)	No components of this products are listed
Section 311/312 Categorizations (40 CFR 370)	Non-Hazardous Material
SARA Section 313	No components of this products are listed





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OTHER INFORMATION

Disclaimer

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