







Safety Data Sheet

24 hour Emergency Response No. **+86-532-8027466**



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION											
IR-PASP (40%)		Shandong IRO Water Treatment Co.,Ltd									
		Mushi Town, Tengzhou, Zaozhuang, China									
PRODUCT USE: Water Treatment Application Formulation		IRO phone: +86-532-8027466									
Personal Protection Equipment	GHS Pictograph	DOT Symbol(s)	HMIS (See last page for guide to HMIS)								
 Safety Glasses  Gloves		DOT Proper Shipping Name: Not regulated as a hazardous material	<table border="1"> <tr> <td>HEALTH</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td>B</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	PHYSICAL HAZARD	0	PERSONAL PROTECTION	B
HEALTH	1										
FLAMMABILITY	0										
PHYSICAL HAZARD	0										
PERSONAL PROTECTION	B										

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW	
GHS CLASSIFICATION Signal Word Warning: IRRITANT 	Prevention Precautionary Statements P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use. P234: Keep only in original container. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/eye protection Response Precautionary Statements P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313: If eye irritation persists, get medical advice/attention.
GHS Hazard Statements H317: May cause an allergic skin reaction H320: Causes eye irritation	
RESPONSE: See section 4: FIRST AID MEASURES. Also, see below: <ul style="list-style-type: none"> Do not handle until all safety precautions have been read and understood. Wear gloves, eye protection and face protection (as needed to prevent skin and eye contact Wash hands or liquid-contacted skin thoroughly after handling. Do not eat, drink or smoke when using this product. 	
STORAGE: Store in a well ventilated place. Keep cool. Store locked up. Keep container tightly closed. Use only approved containers.	
DISPOSAL: Dispose of contents/containers to approved disposal site in accordance with local, regional, and/or international regulations.	



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	WEIGHT %
Poly(L-aspartic acid sodium salt)	34345-47-6	40%
Water	7732-18-5	Balance

SECTION 4: FIRST-AID MEASURES

Inhalation: When safe to enter area, remove from exposure.

Skin Contact: Remove contaminated clothing, jewelry and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15 – 20 minutes).

Eye Contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains.

Ingestion: Never make an unconscious person vomit or drink fluids. Give water or milk. If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Fire And Explosion Hazard: Non-flammable aqueous solution

Extinguishing Media: Not Applicable

Large fires: Not applicable

Fire Fighting: Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Occupational Spill: Do not touch spilled material. Stop leak if possible without personal risk.

Small Spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

Small Dry Spills: Move containers away from spill to a safe area.

Large Spills: Dike for later disposal. Keep unnecessary people away; isolate hazard area and deny entry.

SECTION 7: HANDLING AND STORAGE

Handling: Do not get into eyes, on skin, or on clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Storage: Store in cool, dry, well ventilated area above 0oC. Product is stable under normal conditions of handling and storage.

Emptied containers retain vapor and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned, or destroyed. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

Suitable Materials Of Construction: PVC, polypropylene, glass reinforced plastic, and polyethylene.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION EQUIPMENT (PPE)

Exposure limit(s): Exposure limits are listed below, if they exist.

Exposure Limits: No occupational exposure limits established.

Ventilation: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Eye Protection: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Clothing: Wear appropriate chemical resistant clothing.

Protective Material Types: Rubber

Respirator: Not required under normal use and conditions

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Clear, amber liquid
Odor:	Slight acrylic odor
Boiling Point:	212°F, 100°C
Specific gravity:	1.25-1.28
pH :	9.0-11.0
Decomposition Temperature:	Unknown
Water solubility:	Complete
Viscosity:	Unknown
Formula:	(C ₄ H ₄ NNaO ₃) _n

NOTE: the physical data above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

GENERAL: This product is stable.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Possible interactions with strong oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appears in this section when such data is available.

Acute oral LD50 (Rat): >5000 mg/Kg (non-toxic - limit test, no mortality)

Acute inhalation LC50 (Rat): > 5.1 mg/l (4-hour - limit test, no mortality)

Eye Irritation (Rabbit): Non-irritant

Dermal Irritation (Rabbit): Non-irritant

ACUTE

EYES: Toxicological studies indicate this product to NOT be severely irritating to eyes.

INHALATION LC50: No data available for this product

EYE EFFECTS: This product is NOT expected to be a severe eye irritant based on available toxicological information.

SKIN EFFECTS: This product is possibly irritating to skin.

SENSITIZATION: This product is NOT expected to be a skin sensitizer.



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SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product is regarded as inherently biodegradable under OECD guidelines.

Ecotoxicity – Fresh Water:

Water Fleas (<i>Daphnia pulex</i>)	48 hr LC50:	1792 mg/l
Fathead minnow	48 hr LC50:	2117 mg/l
Algae (<i>Selenastrum capricornutum</i>):	96 hr NOEC:	62 mg/l, LOEC: 125 mg/l

Ecotoxicity – Sea water:

Algae (<i>Skeletonema costatum</i>):	72 hr LC50	> 1000 mg/l
Juvenile Turbot (<i>Scophthalmus maximus</i>):	96 hr LC50	> 1000 mg/l
Crustacean (<i>Acartia tonsa</i>):	48 hr LC50	> 2000 mg/l

CHEMICAL FATE INFORMATION: This product is not expected to bioaccumulate in fish or plants. It may accumulate in activated sludge, and to a lesser degree, algae. It is not expected to significantly undergo biodegradation but may undergo photolysis.

SECTION 13: DISPOSAL

Environmental precautions: Material is classified as a non-hazardous polymer waste for disposal purposes.

Disposal/Waste Classification: Contact a licensed chemical waste hauler to ensure proper disposal at a landfill or other permitted facility in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not regulated as a hazardous material.

SECTION 15: REGULATORY INFORMATION

TSCA: This product and its components are listed on the TSCA Inventory.

EINECS: All monomers, reactants and other components are listed on EINECS.

CERCLA: Not reportable.

SARA Title III:

311/312 Hazard Categories: Non-hazardous

313 Reportable Ingredients: None

EUROPEAN INFORMATION: Non-hazardous material.

Regulatory information provided in this SDS was prepared for this product and is to be used only for the product in its present form, If this material is used as a component in another material or altered in any way, the information in this SDS may no longer be applicable. This document was generated for the



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purpose of distributing health, safety and environmental data.

China. Inventory of Existing Chemical Substances in China (IECSC):

All intentional components are listed on the inventory, are exempt, or are supplier certified

COMMENTS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this MSDS

SECTION 16: OTHER INFORMATION

Further information: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Information Source and References: This SDS is prepared by IRO Specialty Chem. USA, Inc. from information supplied by internal references within our company

Shandong IRO Water Treatment Co. Ltd., Shandong Province, China: Urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements: These are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer, specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us (<https://www.irowater.com>) for the most current version.

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Author: CFrayne



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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM			
HAZARD INDEX		PERSONAL PROTECTION INDEX	
4 = SEVERE HAZARD	An asterisk(*) or other designation corresponds to additional information on a data sheet or separate chronic effects notification	A	
3 = SERIOUS HAZARD		B	
2 = MODERATE HAZARD		C	
1 = SLIGHT HAZARD		D	
0 = MINIMAL HAZARD	Additional Information	E	
PERSONAL PROTECTION EQUIPMENT			
A Safety Glasses	n Splash Goggles	o Face Shield & Eye Protection	p Gloves
q Boots	r Synthetic Apron	s Fall Skirt	t Hearing Protection
u Vapor Respirator	w Chem & Vapor Respirator	y Full Face Respirator	z Airline Hood or Mask
		G	
		H	
		I	
		J	
		K	
		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions

Shandong IRO Water Co., Ltd.