



# Safety Data Sheet




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



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION


<h1>IR-5000</h1>	Shandong IRO Water Treatment Co.,Ltd Mushi Town, Tengzhou, Zaozhuang, China IRO phone: +86-532-8027466
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PRODUCT USE: Water Treatment Application Formulation

Personal Protection Equipment	GHS Pictograph	DOT Symbol(s)	HMIS	
 Safety Glasses  Protective Apron		IMO/IMDG  Not regulated for transport	HEALTH	1
			FLAMMABILITY	0
			PHYSICAL HAZARD	0
			PERSONAL PROTECTION	B

## SECTION 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

GHS CLASSIFICATION	Hazard Statements	Precautionary Statements
Signal Word Warning: <b>IRRITANT</b> 	H303: May be harmful if swallowed H317: May cause an allergic skin reaction H320: Causes eye irritation	P102: Keep out of reach of children. P233: Keep container tightly closed. P262: Do not get in eyes, on skin or on clothing. P264: Wash thoroughly after handling. P281: Use personal protective equipment as required

RESPONSE: See section 4: FIRST AID MEASURES. Also, see below:

- **P202:** Do not handle until all safety precautions have been read and understood.
- **P270:** Do not eat, drink or smoke when using this product.
- **P 280:** Wear gloves, eye protection and face protection (as needed to prevent skin and eye contact Wash hands or liquid-contacted skin thoroughly after handling.

**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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	WEIGHT %
Acrylic polymers	Non hazardous	44-46%
Residual monomers	Not required	<1000 mg/L
Water	7732-18-5	54-56%



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## SECTION 4: FIRST-AID MEASURES

**Inhalation:** If inhaled, remove to fresh air.

**Skin contact:** In case of contact, immediately flush skin with plenty of water. Seek medical advice if symptoms persist or develop.

**Eye contact:** Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice if symptoms persist or develop.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention.

## SECTION 5: FIRE-FIGHTING MEASURES

**Flash point:** Noncombustible.

**Ignition temperature:** Not applicable.

**Lower explosion limit:** Not applicable.

**Upper explosion limit:** Not applicable.

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Specific hazards during firefighting:** Material can splatter above 100C/212F. Dried product can burn.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

**Environmental precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Methods for cleaning up:** Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8 for types of ventilation required.

**Storage:** Keep from freezing - product stability may be affected. STIR WELL BEFORE USE.

**Storage temperature:** 1 - 49°C (34 - 120°F)

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

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

**Exposure controls/Engineering measures:** Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**Protective measures:** Facilities storing OR utilizing this material should be equipped with an eyewash



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facility.

## Individual protection measures:-

**Eye/face protection:** Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.

**Skin protection/Hand protection:** The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves

**Respiratory protection:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required under normal operating conditions. Where vapors and/or mists may occur, wear a properly fitted NIOSH approved (or equivalent) half-mask, airpurifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:-

**Form:**

Liquid

**Color:**

Clear to hazy

**Odor:**

Mild odor

**pH:**

2.3 - 2.9

**Melting point/range:**

0 °C ( 32 °F) Water

**Boiling point/boiling range:**

100 °C ( 212.00 °F) Water

**Flash point:**

Noncombustible

**Evaporation rate:**

<1.00 Water

**Lower explosion limit:**

Not applicable

**Upper explosion limit:**

Not applicable

**Vapour pressure:**

17.0 mmHg at 20 °C (68.00 °F) Water

**Relative vapor density:**

<1.0 Water

**Relative density:**

Circa 1.10

**Water solubility:**

Dilutable

**Auto-ignition temperature:**

Not applicable

**Viscosity, dynamic:**

1,200.000 mPa/s

**Percent volatility:**

54 - 56 % Water

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

## SECTION 10: STABILITY AND REACTIVITY

**Hazardous reactions:** None known. Stable. However, avoid temperatures above 230°C/446°F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

**Materials to avoid:** There are no known materials which are incompatible with this product.

**Hazardous decomposition products:** Thermal decomposition may yield acrylic monomers.

**Polymerization:** Product will not undergo polymerization.



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## SECTION 11: TOXICOLOGICAL INFORMATION

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

**Acute oral toxicity:** LD<sub>50</sub> rat > 5,000 mg/kg

**Acute dermal toxicity:** LD<sub>50</sub> rabbit > 2,000 mg/kg

**Skin irritation:** rabbit No skin irritation

**Eye irritation:** rabbit No eye irritation

**Mutagenicity:** Ames mutagenicity: Negative

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

**Ecotoxicity effects**

**Toxicity to fish:** LC<sub>50</sub> Oncorhynchus mykiss (rainbow trout) 96 Hour OECD Test Guideline 203 or Equivalent >1,100 mg/l

**Toxicity to algae:** ErC<sub>50</sub> Algae 72 Hour OECD Test Guideline 201 or Equivalent > 100 mg/l

**Toxicity to aquatic invertebrates:** EC<sub>50</sub> Daphnia magna 48 Hour OECD Test Guideline 202 or Equivalent >1,040 mg/l

## SECTION 13: DISPOSAL

**Environmental precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Disposal/Waste Classification:** When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

## SECTION 14: TRANSPORT INFORMATION

**US DOT:** Not regulated for road or rail transport

**Classification for SEA transport (IMO-IMDG):** Not regulated for transport

**Classification for AIR transport (IATA/ICAO):** Not regulated for transport

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.



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## SECTION 15: REGULATORY INFORMATION

The following statutes, regulations and standards have the related prescribes on chemicals in terms of safe use, storage, transportation, loading and unloading, classification and symbol S, etc.

- Provisions on the Environmental Administration of New Chemical Substances.
- The Regulation on Chemicals Safe Use at Working Site
- Law on Prevention and Control of Environmental Pollution Caused by Solid Waste.
- Occupational Exposure Limits for Hazardous Agent in The workshop Chemical Hazardous Agents (GBZ 2.1).

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

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

## 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. **Date of production of SDS: 7/06/2015:**

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