

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name : **AKRYMER 940**

Company: Yoniso Chemicals Co.,Ltd.
434/4 Ladprao 47 (Sapan 2) Sapansong,
Wangthonglang, Bangkok 10310

Telephone : (66) 2936-9149 , (66) 2539-9422
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E-mail : www.yoniso.com

Product Use: Processing and industrial application

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Health Hazards :

Not classified..

Physical Hazards:

Not classified.

Environmental Hazards:

Not classified.

Labelling element.

Signal Word:

None.

Hazard pictogram(s):

None

Precautionary statement(s):

Prevention:

None.

Response:

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None.

Other hazards:

Aqueous solution or powders that become wet render surfaces extremely slippery.

Storage:

Store in a dry, cool and well ventilated place.

The recommended storage temperature is 5-30 °C

Disposal:

Dispose in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification:

Anionic water-soluble polymer.

Regulated Components:

None.

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician

Skin contact: Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Get medical attention if **symptoms occur**.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water. Water spray. Foam. Dry powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: None.

Precautions: Aqueous solutions or powders that become wet render surfaces extremely **slippery**.

Special protective equipment for firefighters: No special protective equipment required.

Specific methods : Keep personnel removed and upwind of fire.

Specific hazards : In the event of fire the following can be released : Carbon Oxides.

6. ACCIDENTAL RELEASE MEASURES

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Personal precaution: No special precautions required. The product when wet renders **surfaces extremely slippery**

Environmental precaution: As with all chemical product, do not flush into surface **water**.

Methods for cleaning up: Do not flush with water. Clean up promptly by sweeping or vacuum **Keep in suitable and closed containers for disposal.** After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid dust formation. To avoid fire or explosion, dissipate static electricity **during transfer by grounding and** bonding containers and equipment before transferring material. Use explosion-proof **electrical (ventilating, lighting** and material handling) equipment Do not breathe dust. Wash hands before breaks and at **the end of workday**.

Storage: **Keep in dry, cool and** Well-ventilate place. The recommended storage temperature is 5-30 °C.

Technical measures/Precaution: No special precautions required.

Incompatible products: Bases

Technical measures / Strong conditions: No special storage conditions required.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits:

None.

Engineering measures: Use local exhaust if dusting occurs. Natural ventilation is adequate in **absence of dusts**.

Personal protective equipment:

Respiratory protection: Dust safety masks are recommended where concentration of total **dust is more than 10 mg / m³**.

Hand protection: **PVC** or other plastic material gloves.

Eye protection: Safety glasses with side-shields. Do not wear contact lenses where this **product is used**.

Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

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Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hand before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granular solid
Color:	White
Order:	Slight
pH:	2.5 - 4 @ 5 g/L
Melting point / range (°C):	> 150 (°C)
Flash point (°C):	Non applicable
Boiling point (°C):	Non applicable
Autoignition point (°C):	Non applicable
Vapor pressure (mm Hg):	Non applicable
Approx. bulk density:	0.1-0.6
Viscosity (mPa.s):	See Technical Bulletin
Water solubility:	Completely solution
LogPow:	< 0

10. STABILITY AND REACTIVITY

Conditions to void: Keep away from open flames, hot surfaces and sources of ignition

Stability : Stable. Hazardous polymerization does not occur.

Materials to avoid: Bases

Hazardous decompositions: Thermal decomposition may product: carbon oxides (COX)

11. TOXICOLOGICAL INFORMATION

Product information

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Acute toxicity:**Oral:** LD 50/ oral/rat >2500 mg/kg**Dermal:** LD 50/ dermal/rabbit > 5000 mg/kg (**Estimated**)**Inhalation :** The product is not expected to be toxic by inhalation**Irritation :****Skin :** The product is not expected to be irritating to skin and mucous membranes (Based on results obtained from tests on analogous products.)**Eyes:** By analogy with similar products according to the Draize technique this material should produce no corneals or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.**Respiratory system :** Not a respiratory irritant.**Sensitization:** Not sensitization.**Reproductive effects:** Not toxic for reproduction.**Mutagenicity:** Not mutagenic.**Carcinogenicity:** Not carcinogenic.**IARC:** Not listed.**Chronic toxicity:** No chronic effects.

12. ECOLOGICAL INFORMATION

Product Information

Aquatic toxicity:**Toxicity to fish :** LC50/ Lepomis macrochirus /96 hours >580 mg/L**Toxicity to daphnia:** EC50/Daphna magna/48 hours =168 mg/L**Toxicity to algae :** IC50/ Algae /72 hours = 10 – 100 mg/L**Environmental fate:****Persistence and degradability:** Not readily biodegradable.**Hydrolysis:** Does not hydrolyse.

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Bioaccumulation : Does not bioaccumulate.

LogPow: < 0

LogKow: Not determined.

Waste from residues / unused products: Dispose in accordance with local and national **regulations**.

Contaminated packaging : Rinse empty containers with water and use the rinse water to **prepare the working solution**.

In accordance with local and national regulations.

13. DISPOSAL CONSIDERATIONS

Waste from residues/ unused products: Dispose in accordance with local and national regulations.

Contaminated packaging: Rinse empty containers with water and use the rinse water to prepare the working solution. In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR/RID:

Not classified as dangerous in the meaning of **ADR/RID** regulations.

IMDG/IMO:

Not classified as dangerous in the meaning of **IMO/IMDG** regulations.

ICAO/LATA:

Not classified as dangerous in the meaning of **ICAO/LATA** regulations.

15. REGULATORY INFORMATION

International Inventories:

Australia (AICS): All component of this product are either listed on the inventory or are exempt from listing.

Canada (DSL): All components of this product are either listed on the inventory or are exempt from listing.

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China (IECSC): All components of this product either listed on the inventory or are exempt from listing.

European Union (REACH): All components of product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration

Japan (ENCS): All components of this product are either listed on the inventory or are exempt from listing.

Korea (ECK): All components of this product are either listed on the inventory or are exempt from listing.

Philippines (PICCS): All components of this product are either listed on the inventory or are exempt from listing.

USA (TSCA): All components of this product are either listed on the inventory or are exempt from listing.

16. OTHER INFORMATION

Revision Number: 14.01.a

This MSDS was prepared in accordance with the Globally Harmonized System (GHS), **Annex 4**.
End of Safety Data Sheet.