



Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product name: Sodium Pyrithione, sodium salt, 40% Aqueous Solution

Synonyms: N-Hydroxy-2-pyridinethione, sodium salt; 2-Pyridinethiol-1-oxide, sodium salt; Sodium omadine.

Contact Information:

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Section 2: Composition and Information on Ingredients

CAS#	Chemical Name	Percent(%)	EINECS/ELINCS
7732-18-5	Water	60	231-791-2
3811-73-2	Sodium pyrithione	40	223-296-5

Section 3: Hazards Identification

Immediate (Acute) Health Effects

Inhalation Toxicity: Not expected to cause significant toxicity unless there is prolonged exposure to high concentrations.

Inhalation Irritation: High concentrations may be slightly irritating to the eyes, nose, throat, and lungs.

Skin Contact: Skin contact may cause minor irritation consisting of transient redness and/or swelling.

Skin Absorption: Slightly toxic if absorbed by skin.

Eye Contact: Contact may cause moderate irritation consisting of transient redness, swelling, and mucous membrane discharge to the conjunctiva. Exposure to the human eye has been reported to produce a noticeable stinging response that is relieved upon rinsing the eyes. Reversible irritation with no impairment of vision nor adverse health effects have been reported following exposure. No corneal involvement or visual impairment is expected.

Ingestion Irritation: Ingestion may cause irritation of the gastrointestinal tract and gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy or diarrhea.

Ingestion Toxicity: Moderately toxic if swallowed. If small quantities are ingested, vomiting will normally occur (usually within 5-10 minutes). This product is an emetic and due to this property, it is unlikely that significant quantities of material would be absorbed across the gastrointestinal tract to produce serious toxic effects. However, ingestion may produce gastrointestinal irritation with nausea, vomiting, lethargy and diarrhea.

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at



least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire fighting measures

Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Sulfur oxides (SO_x)

Nitrogen oxides (NO_x)

Hydrogen sulfide

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

Section 6: Accidental Release Measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and storage

Handling

Information for safe handling.

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.



Information about protection against explosions and fires: Keep ignition sources away.

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility:

Aqueous solutions are incompatible with alkali and alkaline earth metals and many reactive organic and inorganic chemicals.

Section 8: Exposure Control, Personal Protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace: Not required.

Additional information: No data

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed:

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment: Use suitable respirator when high concentrations are present.

Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition.

Material of gloves

The selection of suitable gloves not only depends on the material, but also on quality.

Quality will vary from manufacturer to manufacturer.

Eye protection: Safety glasses

Body protection: Protective work clothing.

Section 9: Physical and chemical Properties

Physical State: liquid

Color: pale amber

Odor: mild pyridine

pH : 8.5 - 10.5

Specific Gravity: 1.1 - 1.3

Molecular Formula: C₅H₄NOSNa

Molecular Weight: 149.16

Viscosity: 5.0-9.0 CS

Vapor Density: No data

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.



Conditions to Avoid: Incompatible materials, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

Product Animal Toxicity:

Oral LD50 value: Rat = 1500 mg/kg

Dermal LD50 value: Rabbit = 1800 mg/kg

Inhalation LC50 value: Inhalation LC50 (4h) Rat = 2.8 mg/l

Skin Irritation: Primary Irritation Index Rabbit = 1.08 /8.0 This material is expected to be slightly irritating.

Eye Irritation: Draize score Rabbit = 17 /110 This material caused systemic toxicity and death when administered to the eyes of rabbits. These effects were not seen when this product was administered to the eyes of monkeys. No adverse health effects are expected following eye contact in humans. This material is expected to be slightly irritating.

Mutagenicity: This product has been shown to be non-mutagenic based on a battery of assays.

Carcinogenicity: Sodium Omadine was administered orally to laboratory animals and was found not to induce tumor formation as compared to control animals.

Section 12: Ecological information

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

Section13: Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14: Transport Information

Not a hazardous material for transportation.

DOT regulations:

Hazard class: Non

Land transport ADR/RID (cross-border)

ADR/RID class: None

Maritime transport IMDG:

IMDG Class: None

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None



Transport/Additional information: Not dangerous according to the above specifications.

Section 15: Regulatory Information

Labeling according to EEC Regulation:

Hazard symbol: No

Risk phrases: No

Safety advice: None

Section 16: Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall SHANDONG AILITONG be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AILITONG has been advised of the possibility of such damages.