

1. IDENTIFICATION

Trade Name: **ISA-10 ACID CLEANER**

Chemical Name & Synonyms: Inorganic Acid Blend

UN/ID No: **UN2967**

2. HAZARDS IDENTIFICATION

Classification:

Skin Corr. 1C H314

Eye Dam. 1 H318

Aquatic Acute 2 H401

Signal Word: **DANGER**

Label Elements:



Health Hazards:

Acute toxicity-Inhalation

Category 1

Skin corrosion/irritation

Category 1c

Serious eye damage/eye irritation

Category 1

Specific target organ toxicity (one exposure) Category 1 Respiratory tract irritation

Physical Hazards:

Corrosive to Metals

Category 1

Hazard Statements:

H302 Harmful if swallowed.

H313 May be harmful in contact with skin.

H319 Causes serious eye irritation.

H333 May be harmful if inhaled.

H333 May be harmful if inhaled.

Precautionary Statements:

P260 - Do not breathe dust

P264 | Wash exposed skin thoroughly after handling

P273 | Avoid release to the environment

P280 | Wear protective gloves, eye protection, protective clothing |

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting |
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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 |
P310 - Immediately call a poison center/doctor |
P363 - Wash contaminated clothing before reuse |
P405 - Store locked up |
P501 - Dispose of contents/container to comply with local, state and federal regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sulfamic Acid	5329-14-6	>90%
1,3-Diethyl-2-thiourea	105-55-5	<1%

4. First Aid Measures

General Advice:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

P101: If medical advice/attention is needed; have product container this SDS, or label at hand

Eye Contact:

Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.

P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337/P313 If eye irritation persists: get medical advice/attention.

Skin Contact:

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

P303/P361/P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P333/P313 If skin irritation or rash occurs: Get medical attention.

P363 Wash contaminated clothing before reuse.

Inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Doctor: administration of corticoid spray.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing

P342/P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/911

Ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Do not give chemical antidote

P310 Immediately call a POISON CENTER/doctor/911

P301/P330/P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Note to Physicians: Treat symptomatically.

Self-protection of the First Aider: None specific. General healthcare PPE is appropriate

5. Fire-fighting Measures

Flammable Properties: Non-flammable

Explosive Properties: N/A

Suitable Extinguishing Media: N/A

Unsuitable Extinguishing Media: N/A

Specific Hazards Arising from the Chemical: None known

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures

Personal Precautions: Routine PPE for any spill, no unique requirement.

Environmental Precautions: If not diluted, this product may become a hazardous waste as designated by the EPA under authority of the Resource Conservation and Recovery Act (RCRA)

Methods for Cleaning Up: Product is water soluble and may be diluted and flushed as below described.

Other Information: This product is intended to be used in open recirculating cooling water treatment and discharged to sanitary sewer in its diluted state in tower bleedoff water. Concentrated product may be diluted to a similar working concentration and flushed to sewer or soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations. In case of dust production: keep upwind. Dust production: have neighborhood close doors and windows

Do not breathe dust.

7. Handling and Storage

Advice on Safe Handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Materials: See Section 10.

8. Exposure Controls / Personal Protection

Exposure Guidelines N/A

Engineering Controls: Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE) Wear suitable industrial protective clothing

Eye/Face Protection: Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent.

Body Protection: Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult specialist BEFORE handling this product.

General Hygiene Considerations: P270 Do not eat or drink or smoke when using this product
P363 Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Off white Powder
pH: 1
Specific Gravity: Solid
Molecular Weight: Mixture
Water Solubility: Completely soluble
Melt/FreezePoint: Not determined
Boiling Point: Not determined
Flammability N/A
Flash Point: N/A
Vapor density: N/A

10. Stability and Reactivity

Stability: Stable under normal conditions of use and storage

Conditions to Avoid: None known

Incompatible Materials: Alkalis, metal alloys, chlorinated hydrocarbons.

Hazardous Decomposition Products: Hydrogen gas, Sulfur Oxides may be released if heated

Possibility of Hazardous Reactions: None known

11. Toxicological Information

Blended product not tested.

Routes of Entry Eye contact. Inhalation. Ingestion. Dermal contact.

Toxicity to Animals Acute oral toxicity (LD50): 3160 mg/kg [Rat].

Chronic Effects on Humans The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans Extremely hazardous in case of skin contact (corrosive irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (sensitizer). Hazardous in case of skin contact (permeate)

Chronic Toxicity: None known

Carcinogenicity: None known

Target Organ Effects: H335 May cause respiratory irritation.

12. Ecological Information

Ecotoxicity: Not available.

Persistence/Degradability: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Bioaccumulation: No Data

Mobility: No Data

13. Disposal Considerations

Waste from Residues/Unused Products:

This product is intended to be used in open recirculating cooling water treatment and discharged to sanitary sewer in its diluted state in tower bleedoff water. Concentrated product may be diluted to a similar working concentration and flushed to sewer or soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

P501 Dispose of contents/container in accordance with local/state/federal regulations

Contaminated Packaging: Do not reuse container for potable / food contact. Wash and rinse thoroughly before reuse / recycling

14. Transport information (USDOT):

Proper shipping Name: Sulfamic acid,
Hazard Class: Corrosive
UN/ID No UN2967
Packing Group III
Reportable Quantity (RQ) 6,666 lbs (calculated)
Description: N/A

15. Regulatory Information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

National Fire Protection Association (NFPA) Ratings:



NSF Certification: N/A

16. Other Information

This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.

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