

**NAOCO****NATIONAL RESEARCH & CHEMICAL COMPANY**

444 E. GARDENA BLVD., GARDENA, CA 90248 • TEL (310) 352-6999 • FAX (310) 527-9963 • e-mail: naoco2@aol.com

Since 1918

7/11/2024: File reviewed, more current MSDS/SDS not available. CAS

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

TRADE NAME (as labeled)

ARISTA INDUSTRIAL FIXER

MANUFACTURER'S NAME

National Research & Chemical Company

Address (complete mailing address):

444 EAST GARDENA BLVD.
GARDENA, CA 90248

Phone number for additional information:

310 352-6999 FAX 310 527-9963

Date prepared or revised OCTOBER 1998

Name of preparer

Patrick Diamond

II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Percent*	Exposure Limits in Air (give units)		
			ACGIH TLV	OSHA PEL	Other (specify)
Ammonium thiosulfate	7783-18-8		No data	No data	
Sodium Sulfate	7757-83-7		No data	No data	
Acetic Acid	64-17-7		TWA 10ppm	No data	
Boric Acid	10043-35-3		No data	No data	

HFFA CODE: HEALTH 2 FLAMMABILITY 1 REACTIVITY 0

III. PHYSICAL PROPERTIES

Vapor density (air=1) N/A

Melting point or range, °F N/A

Specific gravity 1.35

Boiling point or range, °F 212°F

Solubility in water Complete

Evaporation rate (butyl acetate = 1) N/A

Vapor pressure, mmHg at 20 °C N/A

Appearance and odor Clear, pale straw; odor of ammonia and vinegar.



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IV. FIRE AND EXPLOSION

Flash Point, °F (give method) 104°F(C.C.) Most hazardous ingredient.

Auto ignition temperature, °F Not applicable

Flammable limits in air, volume %: None

lower (LEL)___

upper (UEL)___

Fire extinguishing materials:

___ water spray

carbon dioxide

___ other:

___ foam

dry chemical

Special firefighting procedures: None

Unusual fire and explosion hazards: None

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure.

Inhaled: Coughing may occur

Contact with skin or eyes: Irritation of skin and eyes.

Absorbed through skin: Development of skin irritation.

Swallowed: Nausea, dizziness, vomiting and headache may result.

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Flush with water for at least 15 minutes and get medical attention.

Skin Contact: Flush skin with plenty of water. If skin irritation develops, get medical attention.

Inhaled: Remove to fresh air.

Swallowed: Induce vomiting and get immediate medical attention.

SUSPECTED CANCER AGENT?

NO: This product's ingredients are not found in the lists below

YES: ___ Federal OSHA ___ NTP ___ IARC

California employers using Cal/OSHA regulated carcinogens must register with Cal/OSHA. The Cal/OSHA and Federal OSHA carcinogen lists are similar.


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VI. REACTIVITY DATA

Stability: Stable Unstable
 Conditions to avoid: Direct heat

Incompatibility (materials to avoid): Strong Alkalies.

Hazardous decomposition products (including combustion products): Ammonia

Hazardous polymerization: May occur Will not occur
 Conditions to avoid:

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Wear protective clothing. Neutralize with Sodium Bicarbonate or other mild base.

Preparing wastes for disposal (container types, neutralization, etc.): If Federal, State and/or local regulations permit, flush the neutralized material to sewer with large amounts of water.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: Good general ventilation

Respiratory protection (type): Organic Vapor Respirator

Eye protection (type): Safety Glasses or Goggles

Gloves (specify material): Impervious Gloves should be worn.

Other clothing and equipment: Safety Shower, Eye Bath.

Work practices, hygienic practices: Do not store or consume food, drink or tobacco in area where they may become contaminated with this material. Wash hands thoroughly with soap and water after handling.

Other handling and storage requirements: Keep tightly sealed. Store above 48°F. Avoid unnecessary personal contact.