

MATERIAL SAFETY DATA SHEET
M.S.D.S.

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I: PRODUCT IDENTIFICATION INFORMATION

TRADENAME (as labeled): ZIP FIX PLUS CONCENTRATED RAPID FIXER
Chemical Name:
Chemical Family:
Formula: PROPRIETARY - AQUEOUS SOLUTION
Synonyms:

EMERGENCY CONTACT:

CHEMTREC
1-800-424-9300

MANUFACTURER'S NAME: NACCO/ NATIONAL RESEARCH & CHEMICAL
444 EAST GARDENA BLVD.
GARDENA, CA. 90248
PHONE: (310) 352-6999
FAX: (310) 527-9963

Department of Transportation: (SHIPPING INFORMATION)

Hazardous Classification: None regulated
Shipping Name: Chemicals NOS **Dot Class:** 55
Packing Group: **UN/NA Number:**

II: PHYSICAL PROPERTIES

V.O.C.: N/A **Appearance:** Clear pale liquid
Vapor Density (air = 1): Negligible **Vapor Pressure (at 20°C):** Negligible
Specific Gravity(H2O=1): 1.3 **Boiling Point/Range1F:** 213°F
Solubility in Water: Complete **Evaporation Rate:** >1
Odor: Mild **pH (of 1% solution):** 5.00

III: COMPOSITION INFORMATION

<u>COMPONENTS</u>	<u>CAS#</u>
Ammonium Thiosulfate	7783-18-8
Boric Acid	10043-35-3
Sodium Metabisulfite	7681-57-4

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IV: POTENTIAL HEALTH HAZARD DATA

EFFECTS OF ACUTE OVER- EXPOSURE:

Eye Contact: Can cause irritation.

Skin Absorption: May cause irritation. Avoid prolonged or repeated contact.

Inhalation: May cause irritation and upper respiratory tract irritation.

Skin Contact: May cause irritation.

Swallowing: May cause nausea, dizziness and headache.

Other Health Hazards: None known

V: FIRST AID EMERGENCY PROCEDURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

Skin Contact: Flush with plenty of soap and water for at least 15 minutes. If irritation continues, seek medical attention.

Inhalation: Immediately move to fresh air. Get medical attention.

Swallowed: Immediately contact physician. If conscious, give large amounts of water.

Other: None known

VI: FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not flammable

Flammable Limits: N/A

Lower:

Upper:

Extinguishing Media: N/A

Water Spray:

Foam:

Carbon Dioxide:

Dry Chemical:

Special Fire Fighting Procedures: Wear appropriate respirator.

Unusual Fire/Explosion Hazard: Keep away from heat and flames.

Other: None known.

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VII: REACTIVITY DATA

Stability:

Stable: X **Unstable:**

Conditions to Avoid: Acids, strong oxidizers, magnesium, aluminum and heat.

Incompatibility: Strong alkali

Hazardous combustion's or Decomposition Products: Sulfur oxides if heated or mixed with any of the above materials.

Hazardous Polymerization:

May Occur: **Will Not Occur:** X

VIII: SPILL, LEAK AND DISPOSAL PROCEDURES

Steps to be taken: Contain spill by inorganic, non-combustible absorbent, such as, sand, pads or inert material.

Preparing waste for disposal: For disposal or discharge, contact Federal, State or Local Agencies.

NOTE: DISPOSE OF ALL WASTE ACCORDING WITH FEDERAL, STATE AND LOCAL REGULATIONS.

IX: SPECIAL HANDLING INFORMATION

Respiratory Protection: None required.

Ventilation: Good general ventilation is recommended.

Protective Gloves: Rubber or plastic, impervious gloves.

Eye Protection: Safety goggles should be worn in chemical handling.

Other clothing and Equipment: Apron or lab coat. Also safety shower and eye bath.

Work practices, hygienic requirements: Avoid unnecessary personal contact. Wash hands thoroughly with soap and water after handling.

Other handling and storage requirements: Store above 48°F.
KEEP OUT OF REACH OF CHILDREN.

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X: OTHER INFORMATION

HMIS RATINGS CHART:

HMIS:

Health:	2	Flammability:	0
Reactivity:	0	Personal Protection:	D

XI: REGULATORY INFORMATION

SARA TITLE III - SECTION 311/312:

N- Fire Hazard
N-Sudden release of pressure hazard
N-Reactivity hazard
N-Immediate health hazard (acute)
Y-Delayed health hazard (chronic)

SARA TITLE III - SECTION 302/304:

This product does not contain extremely hazardous substances at levels, which could require reporting.

SARA TITLE III = SECTION 313:

This product does not contain toxic chemicals at levels, which require reporting.

OZONE - DEPLETING CHEMICALS:

None

CERCLA REPORTABLE QUANTITY:

None

TSCA STATUS:

All components of these products are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

OSHA REGULATIONS:

Do not apply to this material or it's components. At levels which require reporting.

CALIFORNIA PROPOSITION 65:

This product does not contain chemicals known to the State of California to cause cancer.

CALIFORNIA SCAQMO RULE 443.1:

VOC - not applicable.