

# MATERIAL SAFETY DATA SHEET

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## SECTION I – GENERAL INFORMATION

TRADE NAME: **NITRO-SURF (ADJUVANT)**  
CHEMICAL NAME: Nitrogen Solution and Nonionic Surfactant Blend  
CHEMICAL FAMILY: Surfactant (Adjuvant)  
EPA REG. NO.: N/A  
SIGNAL WORD: CAUTION

## SECTION II – INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

NAME	CAS NO.	% (by wt.)	TLV	CLASS
Urea Ammonium Nitrate (25% Nitrogen)	6484-52-2	62.5	N/A	NH
Non-ionic Surfactant Blend	N/A	11.0	N/A	NH
Inerts	N/A	26.5	N/A	NH

## SECTION III – PHYSICAL DATA

Boiling Point: >212°F      Specific Gravity: 1.23 gms/cc  
Vapor Pressure: N.K.      % Volatiles: Approx. 26.0%  
Vapor Density: N.K.      Solubility in Water: Complete  
pH: 6.5-7.5      Appearance/Odor: Clear liquid, slight odor.

## SECTION IV – FIRE & EXPLOSION DATA

Flash Point: >200°F (Non-Combustible)  
Extinguishing Media: Water, Carbon Dioxide, foam.  
Fire Fighting Procedures: Wear self-contained breathing apparatus. Use water spray to keep containers cool. Stay upwind.

## SECTION V – REACTIVITY DATA

Stability: Stable  
Conditions to Avoid: Extreme temperatures  
Incompatibility: Strong oxidizers, most organics, water reactive materials.  
Hazardous Decomposition Products: Oxides of Nitrogen and Carbon  
Hazardous Polymerization: Will not occur

## SECTION VI – HEALTH HAZARD DATA

Carcinogenicity: N/A  
Toxicity Data: None established  
TLV: None established  
N.F.P.A.: Health: 1, Fire: 1, Reactivity: 0  
(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)  
Effects of Overexposure: May irritate skin and eyes upon contact. May irritate upper respiratory tract if mist is inhaled. Avoid ingestion.

## SECTION VII – EMERGENCY PROCEDURES

If on Skin or Clothing: Wash affected area with water. Launder clothing before re-use. Seek medical attention.  
If in Eyes: Flush eyes with water 15 minutes. Seek medical attention.  
If Inhaled: Move victim to fresh air. Seek medical attention.  
If Swallowed: If conscious, immediately give two to four glasses of water, induce vomiting. Get prompt medical attention.

## SECTION VIII- SPILL OR LEAK PROCEDURES

Steps to be taken in case of material leak or spill  
Contain and mop up spilled material into metal or plastic drums. Prevent runoff from entering waterways. Assure protective clothing is worn.  
Waste Disposal Method  
Dispose of in accordance with Local, Federal, and State Regulations.

## SECTION IX – SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH approved respirator  
Ventilation: Local exhaust  
Protective Gloves: Rubber impervious  
Eye Protection: Chemgoggles  
Other: Coveralls, long-sleeve shirt, rubber boots

## SECTION X – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storage  
KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.  
Avoid sparks and excessive heat. Copper containing alloys or galvanized metals.  
D.O.T. Description: Non-Regulated  
Freight Description: Agricultural Spray Adjuvant, Liquid, N.O.S.  
Reportable Quantity: N/A  
E.R.G. Guide Sheet: 171

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