

MATERIAL SAFETY DATA SHEET

Product Name: 4457
Manufacturer's Name: ChemStation of Arizona
Address: 6110 NW Grand Ave
Glendale, AZ, 85301
Telephone Number: (623) 435-1945
Emergency Telephone Number: CHEMTREC (800) 424-9300
Product Created: January 21, 2008

SECTION 2 - COMPOSITION

Chemical Name:	CAS No.:	PEL:	TLV:	Wt %:
citric acid	77-92-9	none	none	0-5
proprietary surfactant blend	mixture	none	none	0-5
triethanolamine	102-71-6	none	none	0-5
water	7732-18-5	none	none	q.s.

This product contains no OSHA, NTP, or IARC listed carcinogens.

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: Thin liquid which may be irritating.
Eyes: Irritating.
Skin: Irritating.
Inhalation (respiratory tract): Irritating.
Ingestion (gastrointestinal tract): Irritating.
Chronic (Cancer) Effects: There is no known effect from chronic exposure to this product.
Teratology (Birth Defect) Information: Components are not known to cause birth defects in humans.

SECTION 4 - FIRST AID MEASURES

Eyes: Flush immediately with running water for fifteen minutes. See a physician if symptoms persist.
Skin: Flush with water immediately. See a physician if symptoms persist.
Inhalation (respiratory tract): Remove to fresh air. See a physician if symptoms persist.
Ingestion (gastrointestinal tract): Dilute stomach contents with water, if conscious. See a physician.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: >200 degrees F PMCC (non-flammable) **UEL:** not applicable
Flammable Limits: None **LEL:** not applicable
Autoignition Temperature: None
Extinguishing Media: Product is non-combustible. Water, foam, carbon dioxide or dry chemical may be used.
Special Fire Fighting Procedures: Standard fire fighting procedures apply.
Unusual Fire and Explosion Hazards: No unusual fire hazards.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Action to Take for Spills and Leaks: Small spills should be mopped up. Large spills should be diked with inert absorbent. Material may be pumped back into container or neutralized for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Do not ingest. Keep out of reach of children.
Storage: Store product in ambient temperature. Avoid freezing or high heat.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:
Eye Protection: Where splashing is likely, wear safety goggles.
Skin Protection: Latex, natural rubber, neoprene or nitrile gloves are recommended.
Respiratory Protection: Not normally required. If needed, such as in enclosed areas, use NIOSH-approved mask or respirator to maintain acceptable inhalation levels.
Other Protective Clothing or Equipment: None.
Ventilation: Normal room air circulation.
For exposure control levels such as Threshold Limit Values (TLVs) or Permissible Exposure Limits (PELs) please refer to Section 2.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Thin liquid	Odor: Mild
Vapor Pressure: Not Determined	Vapor Density: Not Determined
Evaporation Rate (Bu0ac=1): 0.33	Boiling Point: > 212 deg F
Solubility in Water: Complete	Specific Gravity: 1.070
Melting Point: <32 deg F	pH: 7.1
VOC (excluding fragrances): 0%	

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable.
Conditions to Avoid: Avoid extremes in temperature.
Incompatibility: None known.
Hazardous Decomposition or Byproducts: None.
Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGY INFORMATION

No toxicity studies have been conducted on this product.

SECTION 12 - ECOLOGICAL INFORMATION

4457 is fully biodegradable. No toxicity studies have been conducted on this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of in accordance with all applicable local, state, county and federal laws.

SECTION 14 - TRANSPORT INFORMATION

Shipping Name: Compound, Cleaning,N.O.I., Liquid
Hazard Class: None **ID No.:** None **Packing Group:** None

SECTION 15 - REGULATORY INFORMATION

All ingredients in 4457 are listed on the TSCA inventory.

SECTION 16 - OTHER INFORMATION

CHEMSTATION HAZARD IDENTIFICATION:

Health: 1	Flammability: 0	Reactivity: 0
0= no appreciable health hazard	0= flash point >200	0-3 assigned on basis of
1= skin irritant	1= 200 >= flash point >140	reactivity of individual
2= hazardous ingredients <70%	2= 140 >= flash point >100	ingredients
3= hazardous ingredients >= 70%	3= flash point <= 100	

The data in this material safety data sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical data we believe is reliable. Because actual conditions of use are outside our control, no warranties, expressed or implied, are made and we assume no liability in connection with any use of this information.

Every effort has been made to accurately assess the possible hazards associated with this product. We believe that the actual hazards encountered using our products are less severe than those represented by the concentrated raw materials used to make them.