

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: NuBrite C-50 Product Number: SDA142 CAS Number: Blend

NuGeneration Technologies, LLC [www.nugentec.com](http://www.nugentec.com)  
1155 Park Avenue, Emeryville, CA 94608 USA  
Phone (888)996-8436, Fax (877)996-8436 (For product information)  
1-800-424-9300 or 1-202-483-7616 (CHEMTREC: For emergencies)

**SPECIAL INFORMATION:** This product is a citric acid mixture and is considered a non-regulated material.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% NuBrite C-50 CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
CITRIC ACID	50 %	77-92-9

### NON-HAZARDOUS COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
NON-IONIC SURFACTANT BLEND	< 5.0 %	68603-25-8
DI water	Balance	7732-18-5

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

COMPOSITION COMMENT: This product does not contain any ingredients which are known to the state of California to cause cancer, birth defects, or other reproductive harm.

HAZARDS DISCLOSURE: This product contains hazardous materials (citric acid) as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains no known hazardous materials.

## 3. HAZARDS IDENTIFICATION

<b>EMERGENCY OVERVIEW</b> <b>CAUTION!</b> Acidic Cleaning compound may cause irritation, rash or burns.
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HMIS Rating - Health: 1 Flammability: 0 Reactivity: 0 Personal Protection Index: C  
NFPA Rating - Health: 1 Flammability: 0 Reactivity: 0 Special Hazard: None  
NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).

These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

### POTENTIAL HEALTH EFFECTS

EYE: Can cause severe eye irritation and or burns.

SKIN: Contact may cause skin irritation and possible burns.

INHALATION: No known hazards in normal industrial use. Avoid breathing vapors or mists. High vapor concentrations may be irritating to the eyes, nose, throat, and lungs.

INGESTION: Ingestion is not considered a potential route of exposure. No hazard in normal industrial use. Can burn mouth, throat, and stomach.

SIGNS AND SYMPTOMS OF EXPOSURE: Exposure may lead to rash or burn. If exposed areas are flushed promptly and thoroughly with water, there should be little or no harm. This product is completely soluble in water.

CHRONIC EFFECTS: Prolonged and/or repeated contact may produce mild to moderate skin irritation or inflammation and in some cases rashes or burns.

REPRODUCTIVE HAZARDS: No known reproductive hazards.

CARCINOGENICITY INFORMATION: No known cancer hazards.  
MISCELLANEOUS: Slippery, can cause falls if walked on.

#### 4. FIRST AID MEASURES

**EYE CONTACT FIRST AID:**

Flush eye with water for 15 minutes. Get medical attention if irritation develops or persists.

**SKIN CONTACT FIRST AID:**

Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**INHALATION FIRST AID:**

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen.

**INGESTION FIRST AID:**

Get medical attention immediately. Do not induce vomiting. Give victim a glass of water or milk. Never give anything by mouth to an unconscious person.

**STATEMENT OF PRACTICAL TREATMENT:** Always have plenty of water available for first aid.

**NOTES TO PHYSICIAN:** Treat patient symptomatically.

#### 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES**

Autoignition Temperature: None

COC Flash Point: None

TCC Flash Point: None

FLAMMABLE LIMITS IN AIR LEL: None UEL: None

EXTINGUISHING MEDIA: Will not burn.

FIRE & EXPLOSION HAZARDS: Material will not burn.

FIRE FIGHTING INSTRUCTIONS: Contaminated extinguishing water must be disposed of in accordance with applicable regulations.

COMBUSTION PRODUCTS: Carbon Monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

#### 6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL): Protect skin and eyes from exposure.

INITIAL CONTAINMENT: Floor may become slippery. Contain spilled material.

SPILLS PROCEDURE: Forms smooth, slippery surfaces on floors, posing an accident risk. Flush spill area with water to wastewater treatment system. After removal, flush contaminated area thoroughly with water. Or Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Always treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

#### 7. HANDLING AND STORAGE

**RECOMMENDED STORAGE TEMPERATURE**

Minimum: 4.4 C (39.9 F) Maximum: 48.9 C (120.0 F)

**SHELF LIFE:** (in original, sealed containers)

5 years @ 4.4 C 3 years @ 48.9 C

**HANDLING (PERSONNEL):** Avoid contact with eyes, skin, and clothing.

**STORAGE PRECAUTIONS:**

Keep from freezing. Keep container closed when not in use. Do not stack drums more than three pallets high. Do not stack pails more than 3 high. Protect containers from physical damage.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** No special ventilation requirements.

**EYE / FACE PROTECTION REQUIREMENTS:** Where contact with this material is likely, eye protection is recommended.

**SKIN PROTECTION REQUIREMENTS:** Wear protective gloves to minimize skin contamination.

**RESPIRATORY PROTECTION REQUIREMENTS:** Under normal use conditions, with adequate ventilation, no special handling equipment is required.

**MISCELLANEOUS:** Where an apron and protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....	Liquid
COLOR .....	Pale yellow
ODOR .....	Mild
BOILING POINT .....	>212 F
SOLUBILITY IN WATER .....	Complete
SPECIFIC GRAVITY .....	1.247 (Water = 1)
BULK DENSITY .....	10.4
MELTING/FREEZING POINT .....	32 F
PH .....	< 1.0
% VOLATILES .....	0 %
VOLATILE ORGANIC COMPOUNDS (VOC) ....	0 mg/L (in Concentrate)
PH @ 5% .....	1.8
Foaming tendency.....	moderate/low

## 10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Will react with alkaline materials (use to neutralize).  
Avoid contact with strong oxidizing agents. Avoid contact with strong bases.

DECOMPOSITION: Decomposition will not occur if handled and stored properly.

CONDITIONS TO AVOID: This material is safe under normal storage and handling conditions.  
Avoid contact with this material and ferrous metal surfaces.

## 11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Can cause severe eye irritation including burns.

SKIN EFFECTS: Contact may cause skin irritation, rash or burns.

ACUTE ORAL EFFECTS: May cause diarrhea and or vomiting along with tissue burns.

ACUTE INHALATION EFFECTS: May be irritating if inhaled.

REPRODUCTION AND BIRTH EFFECTS: There are no known or reported effects on reproductive function or fetal development.

CHRONIC EFFECTS: There are no known or reported effects from repeated exposure.

## 12. ECOLOGICAL INFORMATION - No information available.

## 13. DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL:

Dilute with water and discharge to an industrial sewage treatment facility. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. Uncleaned empty containers should be disposed of in the same manner as the contents. For additional waste disposal information contact your local NuGenTec representative at (888) 99-NuGen.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL: Clean out containers prior to disposal. Containers should be triple rinsed prior to disposal.

