

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Neutralizer 14 Product Number: MCB101

Synonyms: Alkaline liquid for neutralizing Acidic solutions.

CAS Number: 1310-73-2

NuGeneration Technologies, LLC

www.nugentec.com

100 Professional Center Drive Suite 101, Rohnert Park, CA 94928 USA

1-800-424-9300 or 1-703-527-3887 (CHEMTREC: emergencies), (707) 820-4080 (product information)

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% Neutralizer 14 CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
SODIUM HYDROXIDE	50.0 %	1310-73-2

NON-HAZARDOUS COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
WATER	50.0 %	7732-18-5

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE: This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product does not contain materials that are hazards.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER CORROSIVE!

Can cause skin/eye irritation and or burns.

HMIS Rating - Health: 3
Flammability: 0
Reactivity: 2
Personal Protection Index: G

NFPA Rating - Health: 3
Flammability: 0
Reactivity: 2
Special Hazard: Corrosive

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: Corrosive, contact causes severe eye burns.

SKIN: Contact may cause severe skin irritation and possible burns.

INHALATION: Avoid breathing vapors or mists.

INGESTION: Ingestion is not considered a potential route of exposure. Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. If ingested seek prompt medical attention.

SIGNS AND SYMPTOMS OF EXPOSURE: If exposed areas are flushed promptly and thoroughly with SOAP & water, there should be little or no harm. Seek medical attention as a preventative measure.

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: Unknown.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE: Personnel with pre-existing skin disorders and chronic respiratory diseases should avoid contact with this product.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID: Flush eye with water for 15 minutes. Get medical attention.

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. For larger amounts, do not induce vomiting, but give one or two glasses of water or milk to drink and get medical attention.

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 - COC Flash Point: None TCC Flash Point: None
Autoignition Temperature: None

FLAMMABLE LIMITS IN AIR - LEL: None UEL: None

EXTINGUISHING MEDIA: Will not burn.

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

6. ACCIDENTAL RELEASE MEASURES

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

INITIAL CONTAINMENT: Contain spilled material.

LARGE SPILLS PROCEDURE: Forms smooth, slippery surfaces on floors, posing an accident risk. Dilute with water and wash to waste water treatment system. Large spills may be neutralized with dilute acid solutions of acetic acid or equivalent. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE: Floor may become slippery. Absorb spills with inert material. After cleaning spill with absorbent material wash area with soap and water. 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) 3 years @ 4.4 C 1 year @ 48.9 C

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

HANDLING (PHYSICAL ASPECTS): Keep out of reach of children. Keep from freezing. Keep container closed to avoid contamination. Store in a cool dry area.

STORAGE PRECAUTIONS: Do not stack pails more than three pallets high. Do not stack drums more than two pallets high. Keep from freezing. Keep container closed when not in use.

MISCELLANEOUS: Do not stack over two pallets high.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation requirements.

EYE / FACE PROTECTION REQUIREMENTS: When splashing of the material may occur, chemical goggles and a face shield are 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: colorless

ODOR: None

BOILING POINT: >212 F

SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY: 1.53 (Water = 1)

BULK DENSITY: 12.8

MELTING/FREEZING POINT: <40 F

PH: ~14

% VOLATILES: 0.0 %

VOLATILE ORGANIC COMPOUNDS (VOC) ...: None

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with strong acids. Incompatible with alkaline and alkaline earth metals. Will react with acidic materials (use to neutralize).

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

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

MISCELLANEOUS: Avoid high heat, sunlight and ultra-violet light.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Can cause severe eye irritation including burns and or permanent damage.

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: No known hazards in normal industrial use.

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

12. ECOLOGICAL INFORMATION - No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

For additional waste disposal information contact your NuGenTec representative at (888) 99-NuGen.

Uncleaned empty containers should be disposed of in the same manner as the contents. Avoid disposal into waste water treatment facilities.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL: Clean out containers prior to disposal.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Neutralizer 14
D.O.T. SHIPPING NAME: Corrosive Liquid
TECHNICAL SHIPPING NAME ...: Corrosive Liquid, NOS (Sodium Hydroxide mixture), PG III
D.O.T. HAZARD CLASS: Corrosive
UN NUMBER: 1760 Corrosive Liquid, NOS
PRODUCT RQ (LBS): 2,000
D.O.T. LABEL: Corrosive Liquid
D.O.T. PLACARD: #8
BULK CLASS: N/A
PACKAGE CLASS: 55

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger: Corrosive (C)
R-Phrases: R34 - Causes burns. S-Phrases: S25 - Avoid contact with eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
WHMIS Hazard Symbols: Class E - Corrosive Material
Canadian Disclosure List Sodium Hydroxide (1310-73-2)
CERCLA Hazardous Substances Sodium Hydroxide (1310-73-2) -- RQ 1000 lb
MISCELLANEOUS INFORMATION: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).

16. OTHER INFORMATION

PREPARED BY: Donato Polignone
PRD NUMBER: MCB101 (Official Copy)
APPROVAL DATE: May 30, 2007 SUPERCEDES DATE: Mach 29, 2003

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of NuGeneration Technologies, LLC. The data on this sheet are related only to the specific material designated herein. NuGeneration Technologies, LLC assumes no legal responsibility for use or reliance upon these data.

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