

MATERIAL SAFETY DATA SHEET



Date Issued: 07/08/2008
 MSDS No: LOC201
 Date Revised: 07/08/2008
 Revision No: 1

NO CARB NF

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NO CARB NF
PRODUCT DESCRIPTION: NON-FOAMING HIGH ALKALINE DETERGENT
PRODUCT CODE: LOC201A
PRODUCT FORMULATION NAME: NO CARB NF
ACTIVE INGREDIENT(S): Sodium hydroxide

MANUFACTURER

Zee Company, Inc.
 4146 South Creek Road
 Chattanooga, TN 37406
Emergency Contact: James A. Faller
Service Number: (423) 698-1401

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Brown liquid

IMMEDIATE CONCERNS: Corrosive to eyes, skin and mucous membranes. Will cause permanent eye damage.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive. Will cause eye burns and permanent tissue damage.

SKIN: Corrosive. Causes skin burning.

INGESTION: Harmful or fatal if swallowed.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Very painful burning. Immediate destruction of eye tissues may occur on contact.

SKIN: Burning, reddening, swelling of tissues.

INGESTION: Burning of mouth, esophageal and stomach tissues. Nausea.

INHALATION: Under normal use conditions, inhalation of this product is not expected to be hazardous.

ACUTE TOXICITY: This product is corrosive to eyes, skin and mucous membranes. Contact with this product or its dilutions may cause immediate damage to eye tissues. Harmful or fatal if swallowed.

CHRONIC EFFECTS: None known

CARCINOGENICITY: None known

MUTAGENICITY: None known

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: None known

TERATOGENIC EFFECTS: None known

3. COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	Wt. %	CAS
Sodium hydroxide	< 37	1310-73-2
Potassium hydroxide	< 7	1310-58-3

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open to get thorough rinsing. Get immediate medical attention and check for corneal damage.

SKIN: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

INGESTION: If swallowed, do NOT induce vomiting. Give 1 oz. vinegar or citrus juice in a glass of water, or several large glasses of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None

FLAMMABLE LIMITS: None

AUTOIGNITION TEMPERATURE: None

FLAMMABLE CLASS: N/A

GENERAL HAZARD: Corrosive

EXTINGUISHING MEDIA: N/A

EXPLOSION HAZARDS: N/A

FIRE FIGHTING PROCEDURES: None

FIRE EXPLOSION: None

SENSITIVE TO STATIC DISCHARGE: None

SENSITIVITY TO IMPACT: None

HAZARDOUS DECOMPOSITION PRODUCTS: Not Established

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Neutralize spill with a weak acid such as vinegar or acetic acid. If possible, flush down drain. Otherwise, absorb spill with non-reactive absorbant and place in disposable container.

LARGE SPILL: Neutralize spill with a weak acid such as vinegar or acetic acid. If possible, flush down drain. Otherwise, absorb spill with non-reactive absorbant and place in disposable container.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin and clothing. Avoid contact with aluminum and other soft metals, and painted surfaces.

STORAGE: Store container tightly sealed away from strong acids and soft metals. Contact with either

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may cause a violent, exothermic reaction.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Sodium hydroxide	TWA	2 mg/m ³		2 mg/m ³	
Potassium hydroxide	TWA	2 mg/m ³		2 mg/m ³	

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical resistant goggles or full face shield.

SKIN: Rubber boots, gloves, apron, long-sleeved clothing

PROTECTIVE CLOTHING: Sufficient to prevent contact with product

WORK HYGIENIC PRACTICES: Wash hands and face before eating.

OTHER USE PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Characteristic

APPEARANCE: Clear liquid

COLOR: Brown

pH: ~ 12.0

PERCENT VOLATILE: Not Established

VAPOR PRESSURE: ~ 17.5 mm Hg

VAPOR DENSITY: Not Established

BOILING POINT: ~ (215°F)

MELTING POINT: (40°F)

FLASHPOINT AND METHOD: None

SOLUBILITY IN WATER: Completely Miscible

EVAPORATION RATE: Not Established

SPECIFIC GRAVITY: ~ 1.400 g/ml

WEIGHT PER VOLUME: 11.7 lb/gal

10. STABILITY AND REACTIVITY

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STABLE: Yes

HAZARDOUS POLYMERIZATION: No

POLYMERIZATION: None known

CONDITIONS TO AVOID: Contact with soft metals or painted surfaces

HAZARDOUS DECOMPOSITION PRODUCTS: None known

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY

IARC: None known

NTP: None known

OSHA: None known

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: This product is biodegradable.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Dispose of in accordance with Federal, State and local regulations.

EMPTY CONTAINER: Triple rinse with water then offer for reconditioning or disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: CORROSIVE LIQUIDS, N.O.S. (Contains sodium hydroxide and potassium hydroxide)

TECHNICAL NAME: CORROSIVE LIQUIDS, N.O.S. (Contains sodium hydroxide and potassium hydroxide)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN1760

PACKING GROUP: II

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 2632 pounds

U.S. SURFACE FREIGHT CLASS: 55

PLACARDS: Corrosive

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive
(Contains sodium and potassium hydroxide)

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SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

ACUTE: Yes

302/304 EMERGENCY PLANNING

THRESHOLD QUANTITY: 2632

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Same as section 304

RCRA STATUS: N/A

16. OTHER INFORMATION

APPROVED BY: James A. Faller **TITLE:** Director of Research

PREPARED BY: James A Faller

INFORMATION CONTACT: James Faller

REVISION SUMMARY: Revision #: 1. This MSDS replaces the July 08, 2008 MSDS.

HMIS RATING

HEALTH:	2
FLAMMABILITY:	0
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	B

GENERAL STATEMENTS: The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable, and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.