

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ND-66 (6X9# CASE)  
 Recommended Use Use in drains  
**Information on Manufacturer**  
 CHEMSEARCH DIV. OF NCH CORP.  
 BOX 152170  
 IRVING, TX 75015

Product Code 4278  
 Chemical Nature Mixture of inorganic salts  
**Emergency Telephone Number**  
 CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

**Emergency Overview**

Danger  
 Corrosive  
 Causes skin and eye burns  
 Harmful if inhaled and may cause delayed lung injury  
 Harmful or fatal if swallowed

Color Blue	Physical State granular	Odor Odorless
Potential Health Effects		
Principle Route of Exposure	Skin contact, Eye contact, Inhalation.	
Primary Routes of Entry	Inhalation.	
Acute Effects		
Eyes	Corrosive to the eyes and may cause severe damage including blindness.	
Skin	Causes skin burns.	
Inhalation	Harmful by inhalation. Causes burns.	
Ingestion	Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.	
Chronic Effects	Harmful if inhaled and may cause delayed lung injury.	
Target Organ Effects	Eyes, Skin, Respiratory system, Central Nervous System, Cardiovascular system.	
Aggravated Medical Conditions	Skin disorders. Respiratory disorders. Neurological disorders.	
Potential Environmental Effects	See Section 12 for additional Ecological information	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium hydroxide	1310-73-2
Aluminum	7429-90-5

4. FIRST AID MEASURES

<b>General Advice</b>	Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray .
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
<b>Skin Contact</b>	Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Inhalation</b>	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to Physician</b>	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	Not combustible	<b>Method</b>	Not applicable
<b>Autoignition Temperature</b>	No information available		
<b>Flammability Limits in Air Hydrogen</b>		<b>Upper 75</b>	<b>Lower 4</b>
<b>Suitable Extinguishing Media</b>	Dry chemical.		
<b>Unsuitable Extinguishing Media</b>	None known.		
<b>Specific Hazards Arising from the Chemical</b>	Contact with metals liberates hydrogen gas. Water reactive.		
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
<b>NFPA</b>	Health 3	Flammability 1	Instability 1
<b>HMIS</b>	Health 3	Flammability 1	Instability 1

**Other Water Reactive**

6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Wear protective gloves/clothing. Prevent further leakage or spillage if safe to do so.
<b>Environmental Precautions</b>	No special environmental precautions required.
<b>Methods for Containment</b>	No information available
<b>Methods for Cleaning Up</b>	Pick up and transfer to properly labelled containers.
<b>Neutralizing Agent</b>	Very dilute inorganic acid solution Neutralize with hydrochloric acid or Acetic acid, diluted Corrosive hazard. Wear protective gloves/clothing and eye/face protection

7. HANDLING AND STORAGE

**Handling** Do not get in eyes, on skin, or on clothing. Do not breathe vapours/dust. Avoid dust formation.  
**Storage** Keep container tightly closed in a dry and well-ventilated place. Metal containers must be lined. Do not freeze.  
**Storage Temperature** Minimum 35°F / 2°C Maximum 120°F / 49°C  
**Storage Conditions** Indoor X Outdoor Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Aluminum	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Tightly fitting safety goggles. Face-shield.

Skin Protection

Impervious gloves. Impervious clothing.

Respiratory Protection

Use NIOSH approved respiratory protection.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	granular	Viscosity	solid
Color	Blue	Odor	Odorless
Appearance	Transparent	pH	10% - 14
Specific Gravity	1.18	Bulk Density	9.84
Evaporation Rate	0	Percent Volatile (Volume)	4.1
VOC Content (%)	0	Vapor Pressure	<0.1 mmHg @ 68 °F
Vapor Density	0.6	Solubility	Partly soluble
Boiling Point/Range	Not applicable		

10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions. Hazardous polymerization does not occur .  
**Conditions to Avoid** Heat, flames, and sparks.  
**Incompatible Products** Oxidizing agents. Reducing agents. Contact with metals liberates hydrogen gas.  
**Hazardous Decomposition Products** Carbon oxides. Sodium oxides. Nitrogen oxides (NOx).  
**Possibility of Hazardous Reactions** Water reactive

11. TOXICOLOGICAL INFORMATION

**Product Information** No information available

Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium hydroxide	no data available	1350 mg/kg ( Rabbit )	no data available	no data available	no data available
Aluminum	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide	no data available	no data available	no data available	no data available	eyes, skin, respiratory system
Aluminum	no data available	no data available	no data available	no data available	respiratory system, skin, eyes

Carcinogenicity

There are no known carcinogenic chemicals in this product

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium hydroxide	not applicable	not applicable	not applicable	not applicable	not applicable
Aluminum	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

**Product Information** No information available

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium hydroxide	no data available	LC50= 45.4 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A
Aluminum	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability

No information available

Bioaccumulation

No information available

Mobility

No information available

13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of as hazardous waste in compliance with local and national regulations  
**Container Disposal** Do not re-use empty containers

14. TRANSPORT INFORMATION

**DOT**  
 Proper Shipping Name Sodium hydroxide solution  
 Hazard Class 8  
 UN-No UN1824  
 Packing Group II  
 Description Sodium hydroxide solution,8,UN1824,PG II

**DG**  
 Proper shipping name Sodium hydroxide solution  
 Hazard Class 8  
 UN-No UN1824  
 Packing Group II  
 Description SODIUM HYDROXIDE SOLUTION,8,UN1824,PG II

**CAO**  
 UN-No UN1824  
 Proper Shipping Name Sodium hydroxide solution  
 Hazard Class 8  
 Packing Group II  
 Shipping Description Sodium hydroxide solution,8,UN1824,PG II

**ATA**  
 UN-No UN1824  
 Proper Shipping Name Sodium hydroxide solution  
 Hazard Class 8  
 Packing Group II  
 ERG Code 8L  
 Shipping Description UN1824,Sodium hydroxide solution,8,PG II

**MDG/IMO**  
 Proper Shipping Name Sodium hydroxide solution  
 Hazard Class 8  
 UN-No UN1824  
 Packing Group II  
 EmS No. F-A, S-B  
 Shipping Description UN1824, Sodium hydroxide solution,8,PG II

15. REGULATORY INFORMATION

**Inventories**  
 TSCA Complies  
 OSL Complies  
 J.S. Federal Regulations  
 SARA 313  
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Aluminum	7429-90-5	1-5	1.0

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	Yes

**CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable
Aluminum	Not applicable	Not applicable

**Canada**  
 This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.  
**WHMIS Hazard Class**  
 C Oxidizing materials , E Corrosive material .



16. OTHER INFORMATION

Prepared By Kamal Singh  
 Supersedes Date 07/18/2005  
 Issuing Date 09/22/2008  
 Reason for Revision No information available  
 Glossary No information available  
 List of References No information available

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